Making History

Clickboards™

MIKROE
THE BIGGEST ADD-ON BOARD COLLECTION IN THE WORLD.
Shape the future of the embedded world with our time-saving development tools.

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  Storage
  Miscellaneous
  Motor Control
  Audio & Voice
  Mixed Signal
  Power Management
  Clock & Timing
  Everything under one roof
  Growing with our partners
  Clicking on all platforms

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From one man's idea to a dominant add-on board standard

The entire company works towards a shared vision – to save time of our fellow engineers. Click boards™ product line constitutes a key component of the future we have envisioned.

Development boards are substantially similar: they integrate a microcontroller, power supply, tact switches, LEDs, pins. The features that differentiate development boards are the peripherals such as UART, 7-seg digits, RTC, Relay, ADC, EPROM, and the like. Different projects, however, require that a different peripheral be used each time. If peripherals on a single board could be changed, its functionality would improve significantly.

Presented with the problem, I started looking for a solution: how to change peripherals easily and what to add to a board to be able to do so.

I remember the very moment when I hit upon the idea of the mikroBUS™ standard - the very first drawing of it I made in the sand and later on a piece of paper. In fact, my family was on holiday in a hotel - Hillside Su in Antalya (Turkey), and the hotel played a key role in the story of mikroBUS™ standard: there was a play area for children and an even better one – in the shade and roomy – for babies and for my papers and data-sheet. Amid the papers and babies, as I was keeping an eye on my five-year-old daughter Lena, mikroBUS™ standard came to life.

The name was chosen by one of my colleagues a long time ago: ‘click’ is what you hear when you place the Click board™ onto the development board. ‘It just Clicks’ is a marketing message we wish to convey.

The shape and end-dimension of the Click board™ posed a great challenge. Now that we have made 1000 Click boards™, it is easy to notice that all WiFi, LTE, BLE, GSM, GPS modules, OLED screen, and 7-seg digits fit Click boards™ perfectly, and that the size is right. However, dimension check requires that the components and modules classification on a single Click board™ be reviewed and several hundred datasheets be opened. I take pride in our solution: this part of the Click boards™ story looks like a simple task; however, without it, there would be a great decrease in the number of Click boards™ created.

Back at work, I called a meeting and presented my idea: I spoke about the pins I chose and why I chose those very pins; I explained what the overarching goal was and provided other relevant information. It was in that meeting that we revised the statement and increased the functionality of the mikroBUS™ standard by adding a few more pins, so that there was a total of 16 pins - 8 in each row. We now know that this is by far the smallest number of the pins one can use and which account for most chips, modules, and other components you could place on Click board™.

1000 Click boards™ is a huge milestone since not a single company in our industry has that number of peripheral boards. We made history in reaching that number. More importantly, the mikroBUS™ standard has proven to be very usable: if you can design 1000 different Click boards™ on one standard and create another thousand and then another thousand, that means that the standard is quite exceptional.

Nebojša Matic, CEO
The first sketch of the mikroBUS™ standard drawn in 2011.

What is the minimum number of pins that can cover the greatest number of peripherals?
The first-ever mikroBUS™ compatible add-on board was made in 2011. With this board, we presented a new product line called Click boards™.

GPS Click
It carries LEA-6S high-performance position engine from u-blox.

GPS Click
MIKROE-1032
MSRP – $49.00
It carries LEA-6S high-performance position engine from u-blox.
New Click boards™ release per year

Number of Click boards™ at the end of the year

<table>
<thead>
<tr>
<th>Year</th>
<th>Click boards™</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>25</td>
</tr>
<tr>
<td>2013</td>
<td>60</td>
</tr>
<tr>
<td>2014</td>
<td>93</td>
</tr>
<tr>
<td>2015</td>
<td>174</td>
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<tr>
<td>2016</td>
<td>255</td>
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<td>2017</td>
<td>380</td>
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<td>2018</td>
<td>545</td>
</tr>
<tr>
<td>2019</td>
<td>744</td>
</tr>
<tr>
<td>2020</td>
<td>950</td>
</tr>
<tr>
<td>2021</td>
<td>1000</td>
</tr>
</tbody>
</table>
World's biggest add-on board collection – Click boards™
<table>
<thead>
<tr>
<th>Product Code</th>
<th>MSRP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIKROE-2296</td>
<td>$89</td>
<td>3G Click (USA) U95 3G UMTS/HSPA module. With SIM card slot, Audio/Mic jack, micro USB port.</td>
</tr>
<tr>
<td>MIKROE-2226</td>
<td>$89</td>
<td>3G Click (EU/AUS) U95 3G UMTS/HSPA module. With SIM card slot, Audio/Mic jack, micro USB port.</td>
</tr>
<tr>
<td>MIKROE-2244</td>
<td>$99</td>
<td>4G LTE-E Click With UMTS/HSPA cellular modem – the u-blox U201, from the SARA series.</td>
</tr>
<tr>
<td>MIKROE-2527</td>
<td>$115</td>
<td>4G LTE-NA Click It features the LARA-R211 multi-mode cellular module from u-blox.</td>
</tr>
<tr>
<td>MIKROE-2535</td>
<td>$115</td>
<td>3G SARA Click</td>
</tr>
</tbody>
</table>

**Bluetooth Clicks:**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>MSRP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIKROE-958</td>
<td>$39</td>
<td>BT Audio Click</td>
</tr>
<tr>
<td>MIKROE-1597</td>
<td>$25</td>
<td>Bluetooth Click It features the RN-41 low power, class 1 Bluetooth radio module.</td>
</tr>
<tr>
<td>MIKROE-2471</td>
<td>$39</td>
<td>BLE P Click With nRF8001 Bluetooth 4.0 peripheral device. Open source Android app available.</td>
</tr>
<tr>
<td>MIKROE-1715</td>
<td>$30</td>
<td>BLE 3 Click It features NINA-B1 Bluetooth 4.2 module from u-blox.</td>
</tr>
<tr>
<td>MIKROE-2442</td>
<td>$49</td>
<td>BLE 2 Click With RN420D Bluetooth 4.1 module. Can be set up both as a client or a server.</td>
</tr>
</tbody>
</table>

**3G Click (USA):**

U95 3G UMTS/HSPA module. With SIM card slot, Audio/Mic jack, micro USB port.

**3G Click (EU/AUS):**

U95 3G UMTS/HSPA module. With SIM card slot, Audio/Mic jack, micro USB port.

**4G LTE-E Click:**

With UMTS/HSPA cellular modem – the u-blox U201, from the SARA series.

**4G LTE-NA Click:**

It features the LARA-R211 multi-mode cellular module from u-blox.

**3G SARA Click:**

With UMTS/HSPA cellular modem – the u-blox U201, from the SARA series.

**BT Audio Click:**

With RN22 Bluetooth audio module and on-board 3.5mm jacks for a mic and a speaker.
WIRELESS CONNECTIVITY

GNSS Click
Quectel’s L86 GNSS module with a patch antenna and an external antenna connector.

MIKROE-1850
MSRP – $46

Quectel’s L76 module and SMA antenna connector. GPS + GLONASS.

MIKROE-1887
MSRP – $39

GSM Click
With quad-band GL865-QUAD GSM/GPRS module, onboard antenna connector and SIM card socket.

MIKROE-1298
MSRP – $49

With Quad-band GL865-QUAD GSM/GPRS module, 85.6 kbps GPRS data transfer.

MIKROE-1375
MSRP – $44

ccRF Click
TI’s CC2520, 2.4GHz ZigBee®/IEEE 802.15.4 RF transceiver.

MIKROE-1435
MSRP – $22

With CC2500 low-power 2.4 GHz RF transceiver and PCB trace antenna.

MIKROE-2219
MSRP – $26

With DCTR-76DA RF transceiver, operating in the 868/916 MHz frequency.

MIKROE-2389
MSRP – $36

ccRF 2 Click
TI’s CC2520, 2.4GHz ZigBee®/IEEE 802.15.4 RF transceiver.

MIKROE-1716
MSRP – $36

With CC1120, high performance radio transceiver for ISM and SRD bands.

MIKROE-2218
MSRP – $36

With DCTR-72DAT RF transceiver, operating in the 868/916 MHz frequency.

MIKROE-987
MSRP – $29

ccRF 3 Click
Microchip’s MRF24J40MA 2.4 GHz IEEE 802.15.4 RF radio transceiver module.

MIKROE-2439
MSRP – $79

Quectel’s MC60 quad-band GSM/GPRS/GNSS module. GPS/GNSS location tracking with GSM.

MIKROE-2440
MSRP – $69

With SIM868 quad-band GSM/GPRS module. GPS/GNSS location tracking with GSM.

MIKROE-2586
MSRP – $43

With DCTR-72DAT RF transceiver, operating in the 868/916 MHz frequency.

IQRF 2 Click
With DCTR-72DAT RF transceiver, operating in the 868/916 MHz frequency.

MIKROE-2587
MSRP – $49

With DCTR-76DA RF transceiver, operating in the 868/916 MHz frequency.

MIKROE-987
MSRP – $29

With CC2500 low-power 2.4 GHz RF transceiver and PCB trace antenna.

MIKROE-2219
MSRP – $26

With DCTR-76DA RF transceiver, operating in the 868/916 MHz frequency.

MIKROE-2389
MSRP – $36

GSM/GNSS 2 Click
TI’s CC2520, 2.4GHz ZigBee®/IEEE 802.15.4 RF transceiver.

MIKROE-1714
MSRP – $44

With SIM800H quad-band GSM/GPRS module. 85.6 kbps GPRS data transfer.

MIKROE-1032
MSRP – $49

With Quectel’s L80, high-sensitivity GPS module with a patch antenna.

MIKROE-1714
MSRP – $44

With Quectel’s L86 GNSS module with an integrated antenna and an external antenna connector.

MIKROE-2045
MSRP – $44

It features SAM-M8Q patch antenna module from u-blox.

MIKROE-2670
MSRP – $41

It features NEO-M8Q GNSS receiver module from u-blox.

With SIM33ELAGNSS module with an integrated antenna and an external antenna connector.

MIKROE-1850
MSRP – $46

Carries SIM33ELAGNSS module with an integrated antenna and an external antenna connector.

MIKROE-1887
MSRP – $39

It features SAM-M8Q patch antenna module from u-blox.

MIKROE-2045
MSRP – $44

It features NEO-M8Q GNSS receiver module from u-blox.

MIKROE-2670
MSRP – $41

It carries LEA-6S high-performance position engine from u-blox.

MIKROE-1714
MSRP – $44

With Quectel’s L80, high-sensitivity GPS module with a patch antenna.

MIKROE-2045
MSRP – $44

With Quectel’s MC60 quad-band GSM/GPRS/GNSS module. GPS/GNSS location tracking with GSM.

MIKROE-2670
MSRP – $41

With DCTR-76DA RF transceiver, operating in the 868/916 MHz frequency.

MIKROE-2586
MSRP – $43

With DCTR-72DAT RF transceiver, operating in the 868/916 MHz frequency.

MIKROE-2587
MSRP – $49

With DCTR-76DA RF transceiver, operating in the 868/916 MHz frequency.
**WIRELESS CONNECTIVITY**

**WiFi 2 Click**  
With HLK-M30 module. Can be set up with either a static or dynamic IP address.  
MSRP – $129  
[Image]

**WiFi 3 Click**  
With ESP8266 module. TCP/IP stack. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi 4 Click**  
With SiP Wi-Fi module. Small size. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $54  
[Image]

**WiFi 5 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi 6 Click**  
With ATWINC1510-MR210PB module. IEEE 802.11 b/g/n solution.  
MSRP – $69  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP32-S2EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 7 Click**  
With ATWINC1510-MR210PB module that integrates ESP32EX in AP/WiFiAnd WiFi client mode.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP32EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 8 Click**  
With LF121-A self-contained WiFi module. 2.4GHz band IEEE 802.11 b/g/n radio.  
MSRP – $89  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 9 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 10 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 11 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 12 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 13 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 14 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 15 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 16 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 17 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 18 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 19 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 20 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 21 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 22 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 23 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]

**WiFi 24 Click**  
With ESP-WROOM-02 module. Supports Wi-Fi Direct (p2p). 6 GPIO pins.  
MSRP – $52  
[Image]

**WiFi ESP Click**  
With ESP-WROOM-02 module that integrates ESP8266EX in AP/WiFiAnd WiFi client mode.  
MSRP – $119  
[Image]
SPIRIT Click
With SPI14. 868MHz ultra low power RF module. Memory: 10 KB RAM and 128 KB Flash.
MSRP - $39

XBEE Click
Xbee® and Zigbee compliant XB-24ZPB1-004 module with an integrated antenna.
MSRP - $150

NANO GPS Click
With Nano Hornet, world’s smallest GPS module with an integrated antenna.
MSRP - $54

GPS 4 Click
GPS 4 click carries the L70 compact GPS module from Quectel, with external antenna.
MSRP - $138

GSM 4 Click
Compact quad-band GSM solution, featuring the quad-band SIMA-G300 module.
MSRP - $74

EnOcean 3 Click
With ultra low power TDMIS1 transceiver gateway module and operates at 868MHz radio band.
MSRP - $25

EnOcean 2 Click
Carries the SN10-11, a fully integrated Sigfox™ certified module by InnoComm.
MSRP - $25

EnOcean 3 Click
Carries the SN10-12, a fully integrated Sigfox™ certified module by InnoComm.
MSRP - $25

EnOcean 3 Click
Carries the SN10-13, a fully integrated Sigfox™ certified module by InnoComm.
MSRP - $25

DeviceDrive Click
The WRFG0-M4A module uses the UART interface (with JSON command format).
MSRP - $129

Nano LR Click
A gateway Click board™ which provides a simple and reliable connection to the Click Cloud platform.
MSRP - $115

G2C Click
LTE Cat 1 / UMTS multimo-decellular network solution, with the compact LARA-R2 series modem from u-blox.
MSRP - $115

4G LTE-APJ Click
LTE Cat 1 / UMTS multimode-decellular network solution, with the compact LARA-R2 series modem from u-blox.
MSRP - $115

4G LTE-AT&T Click
LTE Cat 1 / UMTS multimode-decellular network solution, with the compact LARA-R2 series modem from u-blox.
MSRP - $115

GNSS 7 Click
It carries the NEO-M9N GNSS receiver module from u-blox.
MSRP - $39

WiFi BLE Click
The ESP32-WROOM-32 module itself is based on the ESP32-300KDB chip, a powerful 32-bit SOC.
MSRP - $125

WiFi 10 Click
Based on the SX-UL-PAN-1B-2401, an integrated wireless LAN module.
MSRP - $125

WiFi 9 Click
With the PAN9420 a 2.4 GHz ISM band Wi-Fi-embedded module.
MSRP - $45

WiFi BLE Click
The ESP32-WROOM-32 module itself is based on the ESP32-300KDB chip, a powerful 32-bit SOC.
MSRP - $21

WiFi BLE Click
The ESP32-WROOM-32 module itself is based on the ESP32-300KDB chip, a powerful 32-bit SOC.
MSRP - $19

G2C Click
A gateway Click board™ which provides a simple and reliable connection to the Click Cloud platform.
MSRP - $115

4G LTE-APJ Click
LTE Cat 1 / UMTS multimode-decellular network solution, with the compact LARA-R2 series modem from u-blox.
MSRP - $115

4G LTE-AT&T Click
LTE Cat 1 / UMTS multimode-decellular network solution, with the compact LARA-R2 series modem from u-blox.
MSRP - $115

GNSS 7 Click
It carries the NEO-M9N GNSS receiver module from u-blox.
WIRELESS CONNECTIVITY

GNSS ZOE Click
An evaluation board for ultra small ZOE-MIQ GNSS SiP receiver from u-blox.
MSRP – $39

NFC Tag 4 Click
NFC tag device, offering 16 Kbit of electrically erasable programmable memory (EEPROM).
MSRP – $29

SPIRIT 2 Click
With the SP1ML-915, an ultra-low power RF module, which operates at 915 MHz ISM band.
MSRP – $29

BLE 4 Click
It features the NINA-B312, an integrated wireless connectivity solution.
MSRP – $29

BLE 7 Click
Based on the BOX-135220A, a Bluetooth low energy module from Silicon Labs.
MSRP – $29

M-BUS RF 4 Click
With a Telit ME78-169 RF wireless module.
MSRP – $54

Thingstream Click
It is equipped with the SIM818, an 802.11b/g/n quad-band GPRS/GSM module.
MSRP – $54

BLE 5 Click
Based on the PA-N3780A, a Bluetooth 4.2 low energy module from Panasonic.
MSRP – $39

BT Audio 2 Click
Bluetooth audio stream add on board based on BM62 module from Microchip.
MSRP – $26

Nano GPS 2 Click
The smallest GPS module with an integrated patch antenna, the ORG1510-MK05 by OriginGPS.
MSRP – $45

BLE 6 Click
It’s compliant with BT specifications v5.0 and BTLE qualified.
MSRP – $39

UWB Click
The DWMA100 module based on Decawave’s DW1000 Ultra-Wideband (UWB) transceiver.
MSRP – $105

LTE IoT 3 Click
Features the EX9322-10 LTE-IoT Wireless Module from Thales.
MSRP – $105

ZigBee Click
Features the ETXRX367, 2.4 GHz Zigbee Radio module from Silicon Labs.
MSRP – $59

G2C 3G Click
Allows connection to the feature-rich Click Cloud platform, over the 3.75G UMTS/HSPA network.
MSRP – $69

LTE Cat. 1-EU Click
Carries the ELS61 Cat 1 LTE connectivity module with 2G and 3G fall back.
MSRP – $105

LTE Cat. 1-US Click
Carries the ELS61 Cat 1 LTE connectivity module with 2G and 3G fall back.
MSRP – $105

BT Audio 1 Click
Based on the PA-N1760A, a Bluetooth 4.2 low energy module from Panasonic.
MSRP – $26

BLE 6 Click
It’s compliant with BT specifications v5.0 and BTLE qualified.
MSRP – $39

UWB Click
The DWMA100 module based on Decawave’s DW1000 Ultra-Wideband (UWB) transceiver.
MSRP – $105

LTE IoT 3 Click
Features the EX9322-10 LTE-IoT Wireless Module from Thales.
MSRP – $105

ZigBee Click
Features the ETXRX367, 2.4 GHz Zigbee Radio module from Silicon Labs.
MSRP – $59

BT-EZ Click
It features the CYBT-343026-01, module that supports BT 5.0 and BLE stack.
MSRP – $59

5G NB IoT Click
Based on Thales ENS322 NB-IoT Wireless Module that boosts highly efficient 5G omm for the IoT.
MSRP – $79

G3C 3G Click
Allows connection to the feature-rich Click Cloud platform, over the 3.75G UMTS/HSPA network.
MSRP – $69
**WIRELESS CONNECTIVITY**

- **Bluetooth 2 Click**
  With a WT41u, a long-range class 1 Bluetooth® 2.1 + EDR module from Silicon Labs.
  MSRP – $79.00
  MIKROE-4087

- **ISM TX Click**
  Features the MAX1471, a low-power CMOS RF dual-channel receiver.
  MSRP – $69.00
  MIKROE-4499

- **RFID 2 Click**
  The ID-I072-A, an advanced low-cost RFID reader module with 38 different tags.
  MSRP – $129.00
  MIKROE-573

- **BT Click**
  The BT121, a dual-mode Bluetooth Smart Ready module from Silicon Labs.
  MSRP – $59.00
  MIKROE-4384

- **ISM RX 2 Click**
  The PN7150, designed for contactless communication at 13.56 MHz from NXP.
  MSRP – $34.00
  MIKROE-4309

- **BT Click**
  The ID-I072-A, an advanced low-cost RFID reader module from Silicon Labs.
  MSRP – $59.00
  MIKROE-4384

- **RFID 2 Click**
  MSRP – $69.00
  MIKROE-4465

- **NFC 2 Click**
  The ID-I072-A, an advanced low-cost RFID reader module from Silicon Labs.
  MSRP – $59.00
  MIKROE-4384

- **ISM TX Click**
  Features the MAX1471, a low-power CMOS RF dual-channel receiver.
  MSRP – $129.00
  MIKROE-573

- **ISM RX 2 Click**
  The MAX41460, a UHF sub-GHz ISM/SRD transmitter from Maxim Integrated.
  MSRP – $129.00
  MIKROE-4242

- **ISM RX 2 Click**
  The ZED-F9P, a multi-band GNSS module with integrated multi-band (RTK) technology from U-blox.
  MSRP – $129.00
  MIKROE-4242

- **ISMR Click**
  Features the MAX1471, a low-power CMOS RF dual-channel receiver.
  MSRP – $129.00
  MIKROE-573

- **BLE TINY Click**
  Features the DA14531MOD, Smart-Bond TINY module.
  MSRP – $129.00
  MIKROE-4242
IR Grid Click
Equipped with the MLX90621BAD, a 16x4 IR array sensor, from Melexis.
MSRP – $69

Moisture Click
FS52121 IC, a very precise 12bit capacitance to digital converter, from Texas Instruments.
MSRP – $19

Accel Click
With ADXL345 3-axis accelerometer, 13-bit measurement, embedded FIFO technologies.
MSRP – $19

Hydrogen Click
With MQ-8 sensor for hydrogen (H2). Sensor’s detection range 100-10000 ppm of H2.
MSRP – $21

6DOF IMU 2 Click
With BMI160 low power IMU. For precise acceleration and gyroscopic measurement.
MSRP – $18

9DOF Click
L3H0031 inertial measurement module - 3D accelerometer, gyroscope and magnetometer.
MSRP – $24

Hydrogen Click
With MQ-8 sensor for hydrogen (H2). Sensor’s detection range 100-10000 ppm of H2.
MSRP – $19

Angle 3 Click
With AK7451, a magnetic rotational angle sensor with 12-bit angle resolution.
MSRP – $18

Barometer Click
MSRP – $15

Accel 2 Click
With LIS3DH 3-axis accelerometer. Embedded FIFO buffer and 2 programmable state machines.
MSRP – $12

Accel 3 Click
With LIS331DL 3-axis linear accelerometer. Dynamically selectable scales ±100g/±500g/±100g.
MSRP – $15

Accel Click
With ADXL345 3-axis accelerometer. Dynamically selectable scales ±100g/±500g/±100g.
MSRP – $19

MSRP – $24

Accel 3 Click
H3LIS331DL 3-axis linear accelerometer. Dynamically selectable scales ±100g/±500g/±100g.
MSRP – $22

Accel Click
With ADXL345 3-axis accelerometer. 13-bit measurement, embedded FIFO technologies.
MSRP – $19

Moisture Click
FS52121 IC, a very precise 12bit capacitance to digital converter, from Texas Instruments.
MSRP – $19

MSRP – $19

9DOF Click
LSM9DS1 inertial measurement module - 3D accelerometer, gyroscope and magnetometer.
MSRP – $24

Hydrogen Click
With MQ-8 sensor for hydrogen (H2). Sensor’s detection range 100-10000 ppm of H2.
MSRP – $19

Angle 3 Click
With AK7451, a magnetic rotational angle sensor with 12-bit angle resolution.
MSRP – $18

Barometer Click
MSRP – $15

Accel 2 Click
With LIS3DH 3-axis accelerometer. Embedded FIFO buffer and 2 programmable state machines.
MSRP – $12

Accel 3 Click
With LIS331DL 3-axis linear accelerometer. Dynamically selectable scales ±100g/±500g/±100g.
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Accel Click
With ADXL345 3-axis accelerometer. Dynamically selectable scales ±100g/±500g/±100g.
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MSRP – $24

Accel 3 Click
H3LIS331DL 3-axis linear accelerometer. Dynamically selectable scales ±100g/±500g/±100g.
MSRP – $22

Accel Click
With ADXL345 3-axis accelerometer. 13-bit measurement, embedded FIFO technologies.
MSRP – $19

Moisture Click
FS52121 IC, a very precise 12bit capacitance to digital converter, from Texas Instruments.
MSRP – $19

MSRP – $19

9DOF Click
LSM90031 inertial measurement module - 3D accelerometer, gyroscope and magnetometer.
MSRP – $24

Hydrogen Click
With MQ-8 sensor for hydrogen (H2). Sensor’s detection range 100-10000 ppm of H2.
MSRP – $19

Angle 3 Click
With AK7451, a magnetic rotational angle sensor with 12-bit angle resolution.
MSRP – $18

Barometer Click
MSRP – $15

Accel 2 Click
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With ADXL345 3-axis accelerometer. Dynamically selectable scales ±100g/±500g/±100g.
MSRP – $19

MSRP – $24

Accel 3 Click
H3LIS331DL 3-axis linear accelerometer. Dynamically selectable scales ±100g/±500g/±100g.
MSRP – $22

Accel Click
With ADXL345 3-axis accelerometer. 13-bit measurement, embedded FIFO technologies.
The MPXV7007DP, an integrated monolithic differential pressure sensor from NXP.

GeoMagnetic Click
MIKROE-2935
MSRP – $15
Measures the geomagnetic field in three perpendicular axes. The onboard sensor uses FlipCore from Bosch.

10DOF Click
With BNO055, a 9-axis absolute orientation sensor and BMP180, a digital pressure sensor.

3D Hall Click
With MLX90333 3-axis Hall sensor. Detects the position of any magnet in nearby space.

Opto Encoder Click
Carries TCUT1600X01, a tall dome dual channel transmissive optical sensor from Vishay.

ROTD Click
It is based on MAX31855 resistance to digital converter optimized for RTDs.

Ozone Click
Carries MC2S-2614, a compact MOS sensor for ozone (O3) detection.

Warn 2 Click
With TCS3472, a color light sensor and a narrow beam Infrared LED.

Diff Press Click
The MPXV7007DP, an integrated monolithic differential pressure sensor from NXP.

GeoMagnetic Click
Measures the geomagnetic field in three perpendicular axes. The onboard sensor uses FlipCore from Bosch.

Air quality Click
MQ-135 sensor for detecting gases - ammonia, nitrogen oxides, barium, inks, CO2.

Air quality 2 Click
IAQ Core that measures CO2 levels and provides CO2 equivalent and TVOC equivalent predictions.

Air quality 3 Click
Equipped with the CZ8831, an ultra-low power digital gas sensor for monitoring indoor air quality (IAQ).

Air quality 4 Click
An advanced air quality sensing device that combines multiple metal-oxide sensing elements on a chip.

Air quality 5 Click
MiCS-6814, a compact triple MOS sensor from SGX Sensortech, with 3 independent sensors.

3D Motion Click
MM7150 9-axis sensor fusion motion module and SSC7150 motion coprocessor.

6DOF IMU Click
STM’s LSM6DS33TR 6-axis IMU with 3-axis gyroscope and 3-axis accelerometer.

Bi Hall Click
US2882 bipolar Hall-effect switch and a 74LVC146 single bit, dual supply transceiver.

Color Click
With TCS3471 (RGB) color light sensor and a RGB LED diode. Resolution up to 16-bits.

Color 2 Click
3L8502SR color light sensor. 10-bit resolution data, measuring range 5.7 mlix-10,000 lux.

Color 3 Click
With TCS3771 color sensor and a narrow beam Infrared LED.
Earthquake Click
It carries D7S, the world’s smallest high-precision seismic sensor from Omron.
MSRP – $69
Page 25

ECG 2 Click
It measures the electrical activity of a beating heart through electrodes taped to the skin.
MSRP – $15
Page 25

HDC1000 Click
It’s a humidity (and temperature) measurement carrying the HDC1000 sensor.
MSRP – $19
Page 25

Heart rate Click
With Maxim’s MAX30100 integrated pulse oximetry and heart-rate sensor.
MSRP – $19
Page 25

IR eclipse Click
With EE-SX198 photo interrupter sensor - detects anything that obstructs its beam.
MSRP – $15
Page 25

IR reflect Click
Carries GP2S700HCP reflective photo interrupter and an onboard potentiometer.
MSRP – $12
Page 25

Earthquake Click
It carries D7S, the world’s smallest high-precision seismic sensor from Omron.
MSRP – $69
Page 25

LightHz Click
With TSL2561BR converter for conversion of light intensity to frequency with no external components.
MSRP – $17
Page 25

LightRanger Click
It’s a proximity sensor carrying VL6180X IC. Also works as an ambient light sensor.
MSRP – $24
Page 25

LightRanger 2 Click
With VL53L0X IC, the world’s smallest Time-of-Flight ranging and gesture detector sensor.
MSRP – $17
Page 25

ECC Click
It measures the electrical activity of a beating heart through electrodes taped to the skin.
MSRP – $12
Page 25

LDH2200 Click
High precision current sensor with TLI4970-D050T4, a magnetic current sensor.
MSRP – $34
Page 25

LSM6DSL Click
Measures linear and angular velocity with six degrees of freedom. Carries LSM6DSL module.
MSRP – $12
Page 25

MAGNETO Click
Carries AS5048A contactless magnetic angle position sensor that relies on the Hall Effect.
MSRP – $52
Page 25

Manometer Click
Carries a piezoresistive silicon pressure sensor with extremely high accuracy (±0.25% FSS BFSL).
MSRP – $79
Page 25

Grid-EYE Click
8x8 thermal array sensor-detector that carries AMG8833 infrared array sensor.
MSRP – $36
Page 25

Manometer 2 Click
With MS5525D-SO-SB001GS digital pressure sensor. 24-bit digital pressure and temp. value.
MSRP – $179
Page 25
**IR Sense 2 Click**
- **MIKROE-2966**
- **MSRP – $21.00**
- Uses the AK9752, an ultra-small infrared sensor IC, with an I2C interface, from AKM.

**SHT Click**
- **Temperature and humidity sensor SHT1x**
- **MIKROE-1445**
- **MSRP – $17.00**
- Not recommended for newer designs.

**Smoke Click**
- **With MAX30102 optical sensor for smoke detection. Sensor’s inherent resolution 0.0625°C**
- **MIKROE-2101**
- **MSRP – $26.00**
- **Spectral 3 Click**
- Uses the AS7263, a 6-channel NIR Spectral ID device with electronic shutter and I2C interface.

**Pressure 3 Click**
- **MIKROE-2293**
- **MSRP – $20.00**
- With DPS310 digital barometric pressure sensor. Range 300-1200 hPa.

**SHTx Click**
- **Temperature and humidity sensor SHT11**
- **MIKROE-1195**
- **MSRP – $13.00**
- **Smoke Click**
- **MIKROE-949**
- **MSRP – $19.00**
- **Digital humidity and temperature sensor SHT1x**
- **Not recommended for newer designs**

**THERMO 4 Click**
- **MIKROE-2632**
- **MSRP – $9.00**
- **It carries digital temperature sensor and thermal watchdog. Range from –55 °C to +125 °C.**

**THERMO 5 Click**
- **MIKROE-2769**
- **MSRP – $9.00**
- **Measures temperature in default range of 0°C to 127°C and extended range of -64°C to 191°C.**

**THERMO K Click**
- **MIKROE-2501**
- **MSRP – $24.00**
- **It carries the MCP9600 IC. It can measure temperatures from -200 °C to +1372 °C.**

**Altitude Click**
- **MIKROE-1489**
- **MSRP – $14.50**
- **MEMS pressure sensor MPL3115A2. Pressure/altitude (20-bit) and temp. (12-bit) data.**

**Press 1 Click**
- **MIKROE-1120**
- **MSRP – $15.00**
- **With DS1825, a digital thermometer IC with a unique 64-bit address. –10°C to 85°C, ±0.5°C accuracy.**

**HTU21D Click**
- **MIKROE-1687**
- **MSRP – $21.00**
- **Carries a relative humidity sensor with temperature output. Rel. hum. 0-100%, temp. -40 to +125°C.**

**ProxFusion Click**
- **MIKROE-2979**
- **MSRP – $9.00**
- **A multifunctional capacitive and Hall-effect sensor device. Carries the IQS624, a combined multi-sensor IC.**

**Hall Switch Click**
- **MIKROE-2985**
- **MSRP – $18.00**
- **Uses the AH1389, an ultra-sensitive dual output unipolar Hall Effect switch, from Diodes Incorporated.**

**Proximity Click**
- **MIKROE-1445**
- **MSRP – $17.00**
- **With VCNL4010 proximity and ambient light sensor. Range up to 20cm, 16-bit resolution.**

**Thermo 3 Click**
- **MIKROE-1885**
- **MSRP – $9.00**
- **With TMP102, a digital temperature sensor IC. Accurate within 0.5°C.**

**Thermo 7 Click**
- **MIKROE-2979**
- **MSRP – $9.00**
- **Uses the MCP5801, a high accuracy temperature sensor IC with the 2-Wire interface, from Microchip.**

**THERMO 2 Click**
- **MIKROE-1840**
- **MSRP – $15.00**
- **With MAX31855K temperature sensor.**
Thermostat Click
It carries MAX7502 IC that can measure temp. from -25°C to +100°C. Accuracy ±1.5°C.
MSRP – $19

Thunder Click
Detected the presence and proximity of lightning activity with AS3935 lightning sensor.
MSRP – $35

Tilt Click
With HMR-1005, a 9-axis directional optical tilt sensor - left, right, backward, forward movement.
MSRP – $12.90

TILTnSHAKE Click
With LIS3MDQ IC, a 3-axis digital accelerometer, gyroscope, and digital compass. Can function as a 9 ° tilt sensor.
MSRP – $12.90

UNI HALL Click
With US5881 unipolar Hall-effect switch sensitive to the North Pole magnetic fields.
MSRP – $12.90

Vibra sense Click
A micro shock vibration sensor with a digital output. For anti-tampering, anti-theft devices.
MSRP – $13.07

Water Detect Click
For detecting water and other electroconductive liquids. Carries Microchip’s MCP606.
MSRP – $12.90

Weather Click
With BME280 integrated environmental unit. Detects humidity, pressure, and temperature.
MSRP – $12.90

Angle Click
Hall-effect angle sensing device used to measure the rotational angle of the magnetic field.
MSRP – $12.90

Thermo J Click
It is a temperature measurement Click board, which uses a thermocouple type-J probe.
MSRP – $12.90

DHT22 2 Click
Used for measuring the environmental temperature and relative humidity.
MSRP – $12.90

IrDA 3 Click
Intelligent IR transceiver device that sends and receives UART commands via the IR interface.
MSRP – $12.90

MicroWave Click
It detects movement, thanks to the PD-611 a 24GHz microwave motion sensor.
MSRP – $12.90

Proximity 3 Click
Intelligent proximity and light sensing device - high sensitivity long distance PS and ALS.
MSRP – $11.97

Alcohol Click
Detects alcohol in concentrations from 0.0% to 4% with Q-3 Semiconductor sensor.
MSRP – $15.00

Vibra sense click
Weather click
Angle click
Thermo J click
DHT22 2 click
IrDA 3 click
MicroWave click
Proximity 3 click
Alcohol click

Page 42
SENSORS
SENSORS

Temp-Log Click
A precise ambient temp. measurement device, with the non-volatile EEPROM memory.
MSRP – $15
AVARID-2087

TempLog Click
A hall-effect linear current sensor with over-current fault output for less than 100 V Isolation App.
MSRP – $15
AVARID-2087

TempHum 2 Click
With HTS201 temp. and relative humidity sensor. Measurement accuracy ±2°C in 0-65°C range.
MSRP – $11
AVARID-2087

Temp-Hum 2 Click
With the ST7034, a digital humidity and temperature sensor IC with 12-bit I2C interface. From Silicon Labs.
MSRP – $12
AVARID-2087

Temp-Hum 3 Click
Uses the HT3001, a low power Humidity and Temperature Digital Sensor from Texas Instruments.
MSRP – $11
AVARID-2087

Vacuum Click
With the monolithic vacuum sensor the MPXV6115V, it measures pressure values down to -115kPa.
MSRP – $16
AVARID-2087

Ambient 4 Click
Uses the BH1721FVC, a 16-bit digital light sensor with the I2C serial interface.
MSRP – $16
AVARID-2087

Accel 7 Click
Features the BH1749NUC, an integrated color sensor IC.
MSRP – $11
AVARID-2087

IR Grid 3 Click
Equipped with the MLX90640-BAA, a 32x24 IR array sensor, from Melaxis.
MSRP – $87
AVARID-2087

ECG 3 Click
Uses the MAX30003 IC, an ultra-low power, single channel, integrated biopotential AFE.
MSRP – $45
AVARID-2087

Gyro 2 Click
It is equipped with the FXAS21002C, a three-axis integrated angular rate gyroscope.
MSRP – $12
AVARID-2087

Heart rate 6 Click
With two green LEDs, driven by the BH7002IC, an monolithic integrated sensor for heart rate monitoring.
MSRP – $25
AVARID-2087

IR Grid 3 Click
Equipped with the LX3901IC: BAA, a 3x24 IR array sensor, from Melaxis.
MSRP – $14
AVARID-2087

Ambient 2 Click
TFT RP3001 ambient light sensor. Measures the visible part of the light spectrum.
MSRP – $14
AVARID-2087

Hall current 2 Click
A hall-effect linear current sensor with over-current fault output for less than 100 V Isolation App.
MSRP – $18
AVARID-2087

UV 4 Click
Equipped with the SI1333, a UV index and ambient light sensor with I2C interface, from Silicon Labs.
MSRP – $15
AVARID-2087

MIKROE-2886
MSRP – $15
00

A precise ambient temp.
measurement device,
with 8Kbit (1024 bytes)
of EEPROM memory.

MIKROE-2937
MSRP – $13
00

A Hall effect linear current
sensor with over-current
fault output for less than
100 V Isolation App.

MIKROE-2987
MSRP – $18
00

A Hall effect linear current
sensor with over-current
fault output for less than
100 V Isolation App.

MIKROE-2989
MSRP – $15
00

A Hall effect linear current
sensor with over-current
fault output for less than
100 V Isolation App.

MIKROE-1971
MSRP – $16
00

With HTS201 temp. and
relative humidity sensor. Measurement accuracy ±2°C in 0-65°C range.

MIKROE-3004
MSRP – $15
00

A Hall effect linear current
sensor with over-current
fault output for less than
100 V Isolation App.

MIKROE-2989
MSRP – $15
00

A Hall effect linear current
sensor with over-current
fault output for less than
100 V Isolation App.

MIKROE-2989
MSRP – $15
00

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fault output for less than
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100 V Isolation App.

MIKROE-2989
MSRP – $15
00

A Hall effect linear current
sensor with over-current
fault output for less than
100 V Isolation App.
The ADPD105, a highly configurable photometric front end (AFE) device from Analog Devices.

The MLX90393, a micro-power magnetometer based on the proprietary Triaxis® technology.

Uses the Simblee™ enabled RFD77402 ToF sensor module from RF Digital.

IrThermo 3 Click

CO 2 Click With the SPEC amperometric, 3SP CO100 gas sensor which electrochemically reacts with the (CO).

The LMP91000, a high-precision integrated analog front-end IC (AFE).

Features an ultra-low power triaxial accelerometer sensor, labeled as the BMA400.

Measures an accurate distance based on a ToF with VL53L1X rangefinder module.

With the SPEC amperometric, 3SP CO100 gas sensor which electrochemically reacts with the (CO).

Features the BMP280, a digital pressure sensor from Bosch Sensortech.

Detects movement by utilizing the NJR4265RF2C1, an intelligent 24GHz microwave motion sensor.

The BMA280, a 14bit triaxial acceleration sensor with intelligent on-chip motion triggered interrupt controller.

Uses the CDM7160 integrated sensor and measures an absolute CO2 concentration.

Uses Hall effect to provide a precise and reliable measurement of reasonably high current.

The LMP91000, a high-precision integrated analog front-end IC (AFE).

Using the SIM900, a satellite communication module.

Features the BMP280, a digital pressure sensor from Bosch Sensortech.

With the SIM900, a satellite communication module.

Uses the Simblee™ enabled RFD77402 ToF sensor module from RF Digital.

IrThermo 3 Click

CO 2 Click With the SPEC amperometric, 3SP CO100 gas sensor which electrochemically reacts with the (CO).

The LMP91000, a high-precision integrated analog front-end IC (AFE).

Features an ultra-low power triaxial accelerometer sensor, labeled as the BMA400.

Measures an accurate distance based on a ToF with VL53L1X rangefinder module.

With the SPEC amperometric, 3SP CO100 gas sensor which electrochemically reacts with the (CO).

The LMP91000, a high-precision integrated analog front-end IC (AFE).

Features an ultra-low power triaxial accelerometer sensor, labeled as the BMA400.

Measures an accurate distance based on a ToF with VL53L1X rangefinder module.

With the SPEC amperometric, 3SP CO100 gas sensor which electrochemically reacts with the (CO).

The LMP91000, a high-precision integrated analog front-end IC (AFE).

Features an ultra-low power triaxial accelerometer sensor, labeled as the BMA400.

Measures an accurate distance based on a ToF with VL53L1X rangefinder module.
Which utilizes the HMC1512, a magnetic field displacement sensor IC.

Equipped with the KX126-1063, an advanced tri-axis acceleration sensor IC. Which utilizes the HMC1501, a magnetic field displacement sensor IC.

With the LDC1101, the integrated, high-res, high-speed, inductive-to-digital converter.

The BPS230, a relative humidity and temperature sensor with I²C Interface, by Bourns.

The HDC1080, a low power humidity and temperature digital sensor from TI.

The HDC2080, a low power humidity and temperature digital sensor from TI.

The HTU21DF, a digital relative humidity sensor with temp. output from TE Connectivity.

Allows readings in the range from 300hPa up to 1300hPa, with the BM1386GLV sensor.

Designed to measure relatively high current by using the integrated ACS70331 sensor.

It is equipped with the MLX90640, a 32x24 IR array sensor which contains 8 Kbit EEPROM.

With the AEAT-8800-Q24, an integrated 10 to 16-bit programmable angular magnetic encoder.

The AS5311, a high resolution magnetic linear encoder by ams.

The BM1422AGMV, a 3-axis magnetic sensor IC from ROHM Semiconductor.

The LIS2MDL, a low power 3D magnetic sensor, from STMicroelectronics.

The AK09970N, a low power 3D magnetic sensor, from AsahiKASEI (AKM).
The VCNL4040, a fully integrated proximity and ambient light sensor from Vishay Semiconductors.

The BNO080, a System in Package (SiP) sensor produced by Hillcrest Labs.

The ICM-20602, a 6-axis MEMS Motion-Tracking™ IC from TDK Invensense.

The ACS723(LLCTR-05AB-T), a high-accuracy, galvanically isolated current sensor IC, from Allegro Microsystems.

Equipped with the CAT34TS02 sensor from ON semiconductor.

The MAX6642, a ±1°C, SMBus/I2C compatible local/remote temp. sensor by Maxim Integrated.

Equipped with the ENS210 sensor. An ultra-accurate temperature and relative humidity sensor (RH).

With the Si7021-A20, an accurate and reliable sensor IC.

Based on a sensor from the popular SHT family, designed to measure temperature and humidity.

Equipped with the RB-441-45, a 45° rolling ball sensor switch.

With the TEMT8100 sensor. A two-axis MEMS gyrooscope for optical image stabilization app. with the L20G20IS.

Equipped with the ITG-3701, a three-axis digital gyroscope.
The AS7225, a calibrated XYZ chromatic smart lighting director from ams AG.

The VEML6030, a high accuracy ambient light sensor (ALS), from Vishay Semiconductors.

The AS5311, a high resolution magnetic linear encoder by ams.

The SFH 5701 A01, an accurate light-intensity sensor from Osram Opto Semiconductors.

The LTR-329ALS-01, a high accuracy ambient light sensor (ALS) from LiteOn.

The BMP388, a digital pressure sensor, from Bosch Sensortech.

The MPRLS0025PA00001A, an accurate compensated pressure sensor, by Honeywell.

The DPS422, a digital barometric air pressure sensor, by Infineon.

The LPS33HW, digital output barometer IC in water-resistant package, from STMicroelectronics.

The ABP series gauge pressure sensor ABPLLNN600MGAA3, made by Honeywell.

The AK09970N, a low power 3D magnetic sensor, from AsahiKASEI (AKM).

The LPS35HW, an absolute digital output barometer IC in water-resistant package.

Contains the STP201M module, made by NiceRF.

The AK9754, an ultra-small infrared sensor IC, with an I2C interface, from AKM.
**SENSORS**

**3D Hall 6 Click**
The MLX90338, a monolithic contactless sensor IC module.
MSRP - $15**
AMR05-012

**6DOF IMU 7 Click**
The ICX-230B, a high-performance, 6-axis MEMS Motion Tracking IC from TDK InvenSense.
MSRP - $12**
AMR05-017

**6DOF IMU 9 Click**
The ICX9318, a tri-axial accelerometer, tri-axial magnetometer, and temp. sensor.
MSRP - $12**
AMR05-388

**6DOF IMU 11 Click**
The ICX9318, a tri-axial accelerometer, tri-axial magnetometer, and temp. sensor.
MSRP - $12**
AMR05-372

**Accel 13 Click**
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MSRP - $12**
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**Accel 8 Click**
The CPM900, a motion tracking sensor IC from Bosch Sensortec.
MSRP - $11**
AMR05-012

**Accel 11 Click**
The BMA456, a tri-axial acceleration sensor from Bosch Sensortec.
MSRP - $9**
AMR05-012

**Accel 32 Click**
The MLX90339, a low-noise and low power 3-axis accelerometer.
MSRP - $12**
AMR05-017

**13DOF Click**
The MCE298 is a digital 4-in-1 sensor with gas, humidity, pressure and temp. measurement.
MSRP - $15**
AMR05-017

**13DOF 2 Click**
The MCE298 is a digital 4-in-1 sensor with VOC, humidity, pressure and temp. measurement.
MSRP - $15**
AMR05-017

**Color 9 Click**
The APDS-9930, an integrated color sensor IC, made by Broadcom.
MSRP - $12**
AMR05-012

**GMR Angle Click**
The TLI5012B E1000 is a 360° angle sensor and the analog multiplexer 74HCT4053.
MSRP - $12**
AMR05-017

**Heart Rate 8 Click**
The MLX31050, a 6-bit 16k heart rate and pulse oximetry monitoring sensor.
MSRP - $12**
AMR05-017

**NG2 2 Click**
The MLX31050, a 6-bit 16k heart rate and pulse oximetry monitoring sensor.
MSRP - $12**
AMR05-017

**Opto Encoder 3 Click**
The TDC71800 is a contactless sensor series by Broadcom Technologies.
MSRP - $12**
AMR05-017

**Presence Click**
The TP101218, a device from CaliPile™ multi-functional IR sensor series by Excelitas Technologies.
MSRP - $12**
AMR05-017

**Proximity 7 Click**
The VD40340, a digital ambient and proximity sensor, by Broadcom (Avago Technologies).
MSRP - $12**
AMR05-017

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AMR05-017

**AMR Current Click**
The MLX90339, a high-speed response coreless current sensor using a Hall sensor.
MSRP - $12**
AMR05-017

**3D Hall 6 Click**
The MLX90338, a monolithic contactless sensor IC module.
MSRP - $15**
AMR05-012

**6DOF IMU 7 Click**
The ICX-230B, a high-performance, 6-axis MEMS Motion Tracking IC from TDK InvenSense.
MSRP - $12**
AMR05-017

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<tr>
<th>SENSOR</th>
<th>MODEL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>Ambient 3 Click</td>
<td>MIKROE-2860</td>
<td>MSRP – $24.00</td>
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<tr>
<td>Proximity 10 Click</td>
<td>MIKROE-3455</td>
<td>MSRP – $16.00</td>
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<td>Proximity 11 Click</td>
<td>MIKROE-3689</td>
<td>MSRP – $9.00</td>
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<tr>
<td>Remote Temp Click</td>
<td>MIKROE-3724</td>
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<tr>
<td>Thermostat 3 Click</td>
<td>MIKROE-3769</td>
<td>MSRP – $19.00</td>
</tr>
</tbody>
</table>

**Features**

- **Temp-Hum 6 Click**
  - A smart environmental sensor Click board, uses HIH3100 sensor from Texas Instruments.
  - MSRP – $13.00
  - AW: 01-12-2020

- **IR Click**
  - Features TSDP3838B IR 38 kHz receiver module as well as QF113 IR emitting diode.
  - MSRP – $15.00
  - AW: 11-31-2020

- **IRDA2 Click**
  - With TFOU0201, infrared transceiver module and MDP120 infrared encoder/decoder.
  - MSRP – $12.00
  - AW: 01-12-2020

- **IR Beacon Click**
  - Functions as a beacon device with nine VSMB-29H08B, high-speed infrared emitting diodes.
  - MSRP – $12.00
  - AW: 01-12-2020

- **GSR Click**
  - Gainskin skin response (SSR) measures the electrodermal activity (EDA) of the human body.
  - MSRP – $12.00
  - AW: 01-12-2020

- **Proximity 10 Click**
  - The SI1143, a photometric sensor for ambient light and proximity detection.
  - MSRP – $15.00
  - AW: 01-12-2020

- **Proximity 11 Click**
  - The RPR-0521RS, a digital ambient and proximity sensor, by ROHM Semiconductor.
  - MSRP – $7.00
  - AW: 01-12-2020

- **Remote Temp Click**
  - The BH1750FX with the 2-Wire interface.
  - MSRP – $7.00
  - AW: 01-12-2020

- **Thermo 13 Click**
  - The EMC1833, a ±1°C, SMBus/I2C compatible local/remote temperature sensor.
  - MSRP – $17.00
  - AW: 01-12-2020

**Additional Sensors**

- **Heart Rate 8 Click**
  - It is an optical biosensor Click board, designed for heart-rate monitoring (HRM).
  - MSRP – $12.00
  - AW: 01-12-2020

- **Thermo 8 Click**
  - It features the MCP9808, a digital temp. sensor with ±0.5°C max. accuracy, from Microchip.
  - MSRP – $12.00
  - AW: 01-12-2020

- **6DOF IMU 10 Click**
  - Features the KMX62-1031, an 6 Degrees-of-Freedom inertial sensor from Kionix.
  - MSRP – $21.00
  - AW: 01-12-2020

- **Thermo 9 Click**
  - Features the KY1850L, a digital temperature sensor from TE Connectivity.
  - MSRP – $12.00
  - AW: 01-12-2020

- **Proximity 13 Click**
  - Based on Si1134/4899, a high-performance and low-power 3-axis accelerometer.
  - MSRP – $12.00
  - AW: 01-12-2020

- **PIR Click**
  - The PL-NIR18-01, a PL Pyroelectric Infrared Sensors from KEMET.
  - MSRP – $12.00
  - AW: 01-12-2020

- **Thermostat 3 Click**
  - The MAX31855, an IC a thermocouple-to-digital converter with a built-in 14-bit ADC.
  - MSRP – $1.70
  - AW: 01-12-2020

- **TMR Angle Click**
  - The TLE5501, it’s an angle sensors for any kind of angular position sensing.
  - MSRP – $2.20
  - AW: 01-12-2020

- **CAMERA Click**
  - Carries OV7670-VL2A, a low voltage OMDS image sensor.
  - MSRP – $32.00
  - AW: 01-12-2020

- **Ambient Click**
  - With BH1750FX, a digital integrated optical sensor. Converts ambient light intensity into voltage.
  - MSRP – $32.00
  - AW: 01-12-2020
Load Cell 2 Click
Feature the NAU7802, a complete 3-axis magnetic sensor with signal processing from MEMSIC.
MSRP – $10

Force 2 Click
With the FSS015II Honeywell’s FSS-SMT Series force sensor.
MSRP – $12

6DOF IMU 12 Click
The BMG570 IC, a low power inertial measurement unit, from Bosch Sensortec.
MSRP – $12

Motion 2 Click
Based on EKMC1607112, PIR motion sensor from Panasonic Corporation.
MSRP – $12

Motion 3 Click
Based on EKMC1606112, PIR motion sensor from Panasonic Corporation.
MSRP – $12
**9DOF 3 Click**
The BMX055, a 9-axis sensor for the detection of movements, rotations, and magnetic heading.
MSRP – $11^{th} 00

**Light mix-sens Click**
The T4F327053 IC, a proximity measurement, color sensor (RGB+IR), and digital A/D device, from AMS.
MSRP – $7^{th} 00

**Force 4 click**
Based on the HSPA-R003A piezoresistive force sensor from Alpspieze.
MSRP – $29^{th} 00

**Spectrometer Click**
The A07341 IC, a 31-channel Spectral Sensor Frontend from AMS-AG.
MSRP – $12^{th} 00

**Surface temp Click**
With the A077500 – an accurate 16-Bit Digital I2C temp. sensor from Analog Devices.
MSRP – $11^{th} 00

**9DOF 2 Click**
Based on the COM-3D14B, a high performance, 9-axis MotorTracking™ IC from TDK InvenSense.
MSRP – $11^{th} 00

**Altitude 4 Click**
Based on the ICM-20948, a high performance, 9-axis MotionTracking™ IC from TDK Invensense.
MSRP – $15^{th} 00

**Thermo 14 Click**
The STTS22H, a high accuracy temp. sensor IC with the 2-Wire interface, from STMicroelectronics.
MSRP – $7^{th} 00

**UVC Click**
The GUVC-1024F, an UV sensor from GenUV, measures LVC spectrum in the range of 200nm up to 280nm.
MSRP – $12^{th} 00

**Pressure 10 Click**
Uses the HEPADD24A IC, a digital pressure sensor, from ALPS ELECTRIC.
MSRP – $11^{th} 00

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**Ammonia Click**
An Ammonia detection (NH3) sensor, based on the MQ-137 gas sensor.
MSRP – $15^{th} 00

**Hydro Probe Click**
Uses the MCl557 and MCP3021 ICs. The capacitive soil moisture sensors.
MSRP – $13^{th} 00

**Accel 14 Click**
Uses the IIS920W IC, an ultra-wide bandwidth, low-noise, 3-axis digital vibration sensor.
MSRP – $13^{th} 00

**Thermostat 4 Click**
The TMP38B, enables protection and detection of system thermal events from 30°C to 130°C.
MSRP – $3^{rd} 00

**Barometer 3 Click**
Based on the 07341 IC, a digital barometric air pressure sensor IC from Infineon.
MSRP – $8^{th} 00

**TMR mix-sens Click**
With three different Coto Technology RedRock™ TMR magnetic sensors.
MSRP – $11^{th} 00

**Accel 10 Click**
The L1B307842TR, a high-performance ultra-low-power 3-axis “femto” accelerometer.
MSRP – $19^{th} 00

**Scanner Click**
Uses the TLI493D-A2B6 IC, a low power 3 dimensional Hall effect sensor with I2C interface, from Infineon.
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Uses the HEPADD24A IC, a digital pressure sensor, from ALPS ELECTRIC.
MSRP – $11^{th} 00
The MS8607, a digital combination sensor providing 3 environmental measurements.

**MSRP – $700**

The TSYS03, a digital temp. sensor with precise digital output and low power consumption.

**MSRP – $700**

The SHT40, high-accuracy ultra-low-power 16-bit relative humidity and temperature sensor.

**MSRP – $150**

The FMAMSDXX025W-C2C3, a piezoresistive-based force sensor with a digital output.

**MSRP – $5500**

The KP229E2701, a miniaturized analog absolute pressure sensor.

**MSRP – $1200**

The MTi-3, a module outputting 3D orientation, 3D rate of turn, 3D accelerations, and 3D magnetic field.

**MSRP – $39900**

The MAX31825, a digital thermometer with 12-bit temp. measurements.

**MSRP – $9000**

The MA302, a 12-bit digital contactless angle sensor with ABZ and UVW incremental outputs.

**MSRP – $18000**
Features the ADA4571, an AMR sensor with clean and amplified cosine and sine output signals.

MSRP – $24

MIKROE-4561
AMR Angle Click

The ABP2LANT060P-G2A3XX, a piezoresistive silicon pressure sensor.

MSRP – $29

MIKROE-4424
Pressure 14 Click

The ADPD144RI, a PPG optical sensor for photoplethysmography detection of blood oxygenation.

MSRP – $18

MIKROE-4292
Oximeter 2 Click

Features the ZSC31014, a CMOS integrated circuit for highly accurate amplification.

MSRP – $12

MIKROE-4458
Load Cell 4 Click

The LTC2986, a high accuracy digital temperature measurement system.

MSRP – $89

MIKROE-4301
Temp Probe Click

The ACS770, a Hall effect-based high precision linear current sensor with high sensitivity current conductor.

MSRP – $29

MIKROE-4420
Hall Current 7 Click

The LTC2966, a high accuracy digital thermometer measurement system.

MSRP – $12

MIKROE-4299
Load Cell 5 Click

The AD7780, a pin-programmable, low power, 24-bit sigma-delta ADC from Analog Devices.

MSRP – $21

MIKROE-4510
Load Cell 5 Click

The AS7030B, a vital sign sensor with PPG and Electrocardiogram (ECG) operations.

MSRP – $27

MIKROE-4500
ECG/GSR Click

The BMA490L, a high-performance 16-bit digital triaxial longevity acceleration sensor.

MSRP – $9

MIKROE-4501
Accel 15 Click

The SHT40, high accuracy ultra-low-power 16-bit relative humidity and temperature sensor.

MSRP – $7

MIKROE-4496
Temp&Hum 15 Click

The ADPD188BI module for smoke detection with optical dual-wavelength technology.

MSRP – $45

MIKROE-4299
Smoke 2 Click

The SHT40 and SGP40, a high-accuracy best-in-class SHT relative humidity and a temp sensor.

MSRP – $19

MIKROE-4558
Environment 2 Click
INTERFACE
The MAX3237E, a 3V to 5.5V multichannel RS232, 1 Mbit/s line driver/receiver from Texas Instruments.

RS232 2 Click
This MAX3237E, a 3V to 5.5V multichannel RS232, 1 Mbit/s line driver/receiver from Texas Instruments.

MSRP – $15
Mikroe - 2657

1-Wire I2C Click
Converts 1-wire to 1-wire with DS2401.1 Wire/1-Wire to I2C master bridge from Maxim Integrated.

MSRP – $22
Mikroe - 2753

1-Wire T Click
Converts I2C to 1-wire with DS28E17. 1-Wire-to-I2C master bridge from Maxim Integrated.

MSRP – $12
Mikroe - 1296

4-20 mA R Click
Serves as a receiver in a 4-20mA current loop standard. Converts it into a voltage (0.4-2V).

Easy solution for adding 4-to-20mA industry standard communication protocol to your design.

Microchip’s ATA6563 high-speed CAN transceiver for Classical CAN and CAN FD networks.

ATA6563 Click
Microchip’s ATA6563 high-speed CAN transceiver for Classical CAN and CAN FD networks.

MSRP – $25
Mikroe - 2335

Lin transceiver IC designed to handle low-speed data communication in applications.

MSRP – $12
Mikroe - 2852

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Microchip’s ATA6563 high-speed CAN transceiver for Classical CAN and CAN FD networks.

MSRP – $19
Mikroe - 2335

Cana Isolator Click
Provides isolated CAN communication. Data rates of up to 1 Mbps. Carries a DB 9-pin male connector.

MSRP – $12
Mikroe - 2852

CAN SPI Click 3.3V
Adds CAN connectivity with SPI interface. Features SN65HVD330 CAN transceiver circuit.

MSRP – $21
Mikroe - 1387

CAN SPI Click 5V
Adds CAN connectivity with SPI interface. With MCP2515 CAN transceiver circuit.

MSRP – $21
Mikroe - 1388

DALI Click
Provides Digital Lighting Interface. With two optocouplers, push button, screw terminal.

MSRP – $21
Mikroe - 1387

Mikroe - 1297

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Mikroe - 1387
**ETH Click**
With ENC28J60, a 28-pin, 10BASE-T stand-alone Ethernet controller with an on-board MAC & PHY.
MSRP – $24.00

**ETH WIZ Click**
With W5500, a 48-pin, 10/100 BASE-TX stand-alone Ethernet controller.
MSRP – $19.00

**EXPAND Click**
Expands the number of input-output lines with Microchip's 16-bit I/O expander MCP23017.
MSRP – $12.00

**Expand 2 Click**
Expands the number of input-output lines with Microchip's 16-bit I/O expander MCP23017.
MSRP – $12.00

**Expand 3 Click**
With DS2408, an 8-channel programmable I/O expander from Maxim Integrated.
MSRP – $11.00

**USB SPI Click**
Microchip's MCP23010 USB-to-SPI protocol converter with SPI header as well as USB MH8 B connector.
MSRP – $11.00

**USB UART 2 Click**
Provides USB isolation and carries the AD-UM4100V882 USB port isolator.
MSRP – $13.00

**USB UART 2 Click**
With FT232RL, USB-to-UART interface module.
MSRP – $13.00

**USB UART Click**
Adds serial UART communication via USB cable. With FT232RL USB-to-UART interface module.
MSRP – $16.00

**USB I2C Click**
With MCP2210 USB-to-I2C converter. Full-speed USB (12 Mb/s), I2C up to 400 kHz clock rates.
MSRP – $13.00

**USB SPI Click**
Provides I2C bus interface for controlling 4D Systems gen4 Series intelligent Display Modules.
MSRP – $12.00

**Fiber Opt Click**
Add fiber-optic communication with IF-D91 fiber-optic photodiode, IF-E97 fiber-optic LED diode.
MSRP – $9.00

**4D display Click**
Offers an mikroBUS interface for controlling 4D Systems gen4 Series intelligent Display Modules.
MSRP – $10.00

**OBDII Click**
Tap inside the car diagnostic systems! Features the STN1110 Multiprotocol OBD to UART Interface.
MSRP – $9.00

**FTDI Click**
With FT2232H - dual high-speed USB 2.0 to UART/I2C/SPI serial interface converter.
MSRP – $12.00

**I2C 1-Wire Click**
Performs bidirectional conversions between I2C masters and 1-Wire slave devices with DS19212-80C.
MSRP – $10.00

**I2C Isolator Click**
TI's ISO1540, a low-power, bidirectional isolator compatible with I2C Interfaces.
MSRP – $12.00

**OBDII Click**
Tap inside the car diagnostic systems! Features the STN1110 Multiprotocol OBD to UART Interface.
MSRP – $9.00

**AMP Click**
High performance amplifier with a broad bandwidth.
MSRP – $15.00

**USB UART 2 Click**
With FT232RL, USB-to-UART interface module.
MSRP – $13.00

**USB UART Click**
Adds serial UART communication via USB cable. With FT232RL USB-to-UART interface module.
MSRP – $13.00

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MSRP – $9.00

**4D display Click**
Offers an mikroBUS interface for controlling 4D Systems gen4 Series intelligent Display Modules.
MSRP – $10.00

**OBDII Click**
Tap inside the car diagnostic systems! Features the STN1110 Multiprotocol OBD to UART Interface.
MSRP – $9.00

**FTDI Click**
With FT2232H - dual high-speed USB 2.0 to UART/I2C/SPI serial interface converter.
MSRP – $12.00

**I2C 1-Wire Click**
Performs bidirectional conversions between I2C masters and 1-Wire slave devices with DS19212-80C.
MSRP – $10.00

**I2C Isolator Click**
TI's ISO1540, a low-power, bidirectional isolator compatible with I2C Interfaces.
MSRP – $12.00

**OBDII Click**
Tap inside the car diagnostic systems! Features the STN1110 Multiprotocol OBD to UART Interface.
MSRP – $9.00
I2C Isolator 2 Click
Carries ADuM1401, 5.4 kV digital isolator optimized for a serial peripheral interface (SPI).
MSRP – $24
ARRIER – $16

RS485 2 Click
Provides I2C lines and power isolation for slave devices with ADM3260 dual I2C isolator.
MSRP – $12
ARRIER – $8

RS485 3 Click
Carries MAX1471, half-duplex transceiver for lithium battery-powered RS-485/RS-422 applications.
MSRP – $12
ARRIER – $8

MCP2517FD Click
Carries MAX1770, half-duplex transceiver for lithium battery-powered RS-485/RS-422 applications.
MSRP – $25
ARRIER – $17

MCP2542 Click
Microchip’s CAN FD Transceiver with Wake-Up Pattern. Compliant with CAN 2.0 and CAN FD.
MSRP – $20
ARRIER – $14

RS485 Click 3.3V
Carries SN65HVD12 half-duplex, RS-485 transceiver from Texas Instruments.
MSRP – $18
ARRIER – $11

MCP25625 Click
With CAN controller with an integrated transceiver. High speed operation up to 1 Mb/s.
MSRP – $24
ARRIER – $16

RS485 Click 5V
PS/2 Click
Carries the ADM485 differential line transceiver from Analog Devices.
Adds keyboard and mouse connectivity. With a standard 6-pin Mini-DIN PS/2 connector.
MSRP – $18
ARRIER – $11

PWM Click
For controlling 16 PWM outputs through a single I2C interface. With PCA9685PW IC.
MSRP – $14
ARRIER – $9

SPI Isolator Click
Carries ADuM4154 5kV digital isolator optimized for a serial peripheral interface (SPI).
MSRP – $29
ARRIER – $19

RS485 Isolator Click
With ADM2682EBRIZ, a 5 kV RMS signal and power isolated RS-485 transceiver.
MSRP – $49
ARRIER – $30

RS485 Isolator Click
Isolated dual transceiver Click - secure and easy UART to RS232 conversion, with galvanic isolation.
MSRP – $22
ARRIER – $56

RS232 Isolator Click
Adaptor Click, which hosts NimbeLink/Skywire™ cellular modems (using stacking headers).
MSRP – $10
ARRIER – $6

LLC-SPI Click
Used as the level converter for logic signals. It is perfectly suited for SPI communication.
MSRP – $9
ARRIER – $6

UART 1-Wire Click
Designed to convert standard UART or RS232 signals into 1-Wire® signals.
MSRP – $12
ARRIER – $7

RS232 Isolator Click
Isolated dual transceiver Click - secure and easy UART to RS232 conversion, with galvanic isolation.
MSRP – $12
ARRIER – $7

Skywire® Click
Bridge Click, which hosts NimbeLink/Skywire™ cellular modems (using stacking headers).
MSRP – $6
ARRIER – $3

Adapter Click
Simplifies connection of the add-on boards with IDC10 headers to mikroBUS™ socket.
MSRP – $5
ARRIER – $3

LLC-I2C Click
Used as the level converter for logic signals. It is perfectly suited for I2C communication.
MSRP – $5
ARRIER – $3

UART 3-Wire Click
Used as the level converter for logic signals. It is perfectly suited for SPI communication.
MSRP – $12
ARRIER – $7
An adapter for connecting Riverdi TFT displays to a mikroBUS™ socket.

**MSRP** – $9

**MSP** – 179

**AVAIL:** 2-202

**INTERFACE**

**Shuttle Click**

The mikroBUS™ socket expansion board, which allows stacking up to four Click boards™.

**MSRP** – 149

**AVAIL:** 2-202

**USB UART 3 Click**

Comes with Microchip's DS3950A, a serial number iButton™ device with a unique 64-bit serial number.

**MSRP** – 239

**AVAIL:** 2-202

**DALI 2 Click**

The CP220, a high-speed CAN transceiver with the DALI-I2C protocol.

**MSRP** – 239

**AVAIL:** 2-202

**Terminal Click**

The stackable mikroBUS™ extension board that can be used for testing or com. surveillance.

**MSRP** – 259

**AVAIL:** 2-202

**Matrix RGB Click**

Powered by a 32-bit F790-HCI designed specifically for powering 16x32 RGB LED matrices.

**MSRP** – 679

**AVAIL:** 2-202

**UART MUX Click**

It's an SPI to RS232 interface converter with two IDs - MAX3100 and MAX3232.

**MSRP** – 429

**AVAIL:** 2-202

**FT click**

Features FT6050 Free Topology Smart Transceiver from Dialog Semiconductor.

**MSRP** – 529

**AVAIL:** 2-202

**Dual LIN Click**

It’s a dual transceiver for LIN with the TLE7259-3GE, LIN transceiver with integrated wake-up and protection features.

**MSRP** – 112

**AVAIL:** 2-202

**M-Bus Master Click**

It’s the TLE7259-3GE, LIN transceiver with integrated wake-up and protection features.

**MSRP** – 79

**AVAIL:** 2-202

**USB UART 3 Click**

It's the SN74LV4052A, a Dual 4-Channel Multiplexer and Demultiplexer.

**MSRP** – 229

**AVAIL:** 2-202

**RS232 SPI Click**

It’s the SN74LV4052A, a Dual 4-Channel Multiplexer and Demultiplexer.

**MSRP** – 679

**AVAIL:** 2-202

**AT6570 Click**

Uses the AT6570, a standalone high-speed CAN transceiver IC from Microchip.

**MSRP** – 679

**AVAIL:** 2-202

**iButton™ Click**

Comes with Maxim’s DS1990A, a serial number iButton™ device with a unique 64-bit serial number.

**MSRP** – 359

**AVAIL:** 2-202

**Matrix RGB Click**

Powered by a 32-bit FT900-HCI designed specifically for powering 16x32 RGB LED matrices.

**MSRP** – 679

**AVAIL:** 2-202

**USB UART 3 Click**

It's the SN74LV4052A, a Dual 4-Channel Multiplexer and Demultiplexer.

**MSRP** – 679

**AVAIL:** 2-202

**Dual LIN Click**

It’s a dual transceiver for LIN with the TLE7259-3GE, LIN transceiver with integrated wake-up and protection features.

**MSRP** – 112

**AVAIL:** 2-202

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**AVAIL:** 2-202

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**AVAIL:** 2-202

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**MSRP** – 679

**AVAIL:** 2-202

**AT6570 Click**

Uses the AT6570, a standalone high-speed CAN transceiver IC from Microchip.

**MSRP** – 679

**AVAIL:** 2-202

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**MSRP** – 359

**AVAIL:** 2-202

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**AVAIL:** 2-202

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**AVAIL:** 2-202

**Dual LIN Click**

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**MSRP** – 112

**AVAIL:** 2-202
Xplained Pro boards have one or more dual-row, 20-pin, 100mil female extension header. MSRP – $12**

MCP2515FD click Features MCP2515FD, CAN FD controller and XDS510 CAN transceiver. MSRP – $125**

I2C Mux Click Uses the 74HC4067, a 16-channel analog multiplexer/demultiplexer. MSRP – $7**

Analog Mux click Features the TC4411A, a High-Speed CAN transceiver from Infineon. MSRP – $125**

RS485 6 Click With the THV0332OF a half-duplex RS-485 communication with integrated surge protection. MSRP – $7**

CAN FD 3 Click Features the TC4411A, a High-Speed CAN transceiver from Infineon. MSRP – $125**

CAN FD click With the TC4411A, a High-Speed CAN transceiver from Infineon. MSRP – $7**

I2C Mux 2 Click Uses the TCA9545A, a 4-channel, bidirectional translating I2C switch. MSRP – $7**

I2C MUX 2 Click Features TLE9505A, a high-speed CAN network transceiver from Infineon. MSRP – $125**

I2C MUX click Features TLE9505A, a quad bidirectional translating switch controlled via the I2C bus. MSRP – $7**

RS485 Isolator 2 Click With the ADM2874E a 5.7 kV rms signal and power isolated full duplex RS-485 transceiver. MSRP – $125**

RS485 Isolator click With the ADM2874E a 5.7 kV rms signal and power isolated full duplex RS-485 transceiver. MSRP – $7**

DMX Click With the TCA9546A a quad bidirectional translating switch controlled via the I2C bus. MSRP – $7**

Monarch Adapter Click Connects a compatible Monarch Go LTE-M modems from Sequans to a development board or prototype device. MSRP – $125**

RS485 5 Click With the ADM2862E – Power Isolated RS-485 Transceiver and PIC18F26K42 µ judges. MSRP – $29**

M-Bus Slave Click Equipped with the MAX485, low-power, slew-rate-limited transceiver. MSRP – $16**

RF Switch Click Uses the MAX9530S1S IC, a GaAs PHEMT MMIC single-pole, double-throw [SPDT] switch. MSRP – $19**

RF Switch Click Equipped with the TSS721A, a single chip transceiver. MSRP – $15**

SPI Extend Click Based on the LTC4331, which is a point-to-point compatible I2C slave device extender. MSRP – $19**

SPI Extend click Equipped with the LTC4332, a 2MHz point-to-point SPI bus extender. MSRP – $12**

MCP5180FD click Features MCP5180FD, CAN FD controller and XDS510 CAN transceiver. MSRP – $125**

I2C MUX 4 Click Based on the LTC4332, a 2-wire bus multiplexer with bus buffers. MSRP – $12**

XPRD-Adapter click Xplained Pro boards have one or more dual-row, 20-pin, 100mil female extension header. MSRP – $125**

EXPAND 5 Click Based on the LTC4332, which is a point-to-point compatible I2C slave device extender. MSRP – $125**

CAN FD 4 Click Features the TLE9505A, a high-speed CAN network transceiver from Infineon. MSRP – $7**

Radio Click Equipped with the MAX517, a ±± power supply. MSRP – $125**

Expanding Click Equipped with the MAX517, a ±± power supply. MSRP – $125**

USB-C click Equipped with the MAX517, a ±± power supply. MSRP – $125**

MCP2515FD click Features MCP2515FD, CAN FD controller and XDS510 CAN transceiver. MSRP – $125**

TCA9545A click Based on the TCA9545A, a high-speed CAN controller and transceiver. MSRP – $125**

TCA9546A click Based on the TCA9546A, a high-speed CAN controller and transceiver. MSRP – $125**

CAN FD click Features the TCA9546A, a quad bidirectional translating switch controlled via the I2C bus. MSRP – $7**

XPRD3 - Adapter click Xplained Pro boards have one or more dual-row, 20-pin, 100mil female extension header. MSRP – $125**

EXPAND 4 Click Based on the LTC4332, a 2-wire bus multiplexer with bus buffers. MSRP – $12**

I2C Extender click Equipped with the LTC4332, a 2MHz point-to-point SPI bus extender. MSRP – $12**

SPI Extender Click Based on the LTC4332, which is a point-to-point compatible I2C slave device extender. MSRP – $125**

SPI Extender click Based on the LTC4332, a 2MHz point-to-point SPI bus extender. MSRP – $12**

I2C Extender click Equipped with the LTC4332, a 2MHz point-to-point SPI bus extender. MSRP – $125**

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<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Features</th>
<th>MSRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX399</td>
<td>CMOS analog multiplexer</td>
<td>Uses the ICL3221, a 3.3V powered RS232 transmitter/receiver that provides ±15kV ESD protection.</td>
<td>$27</td>
</tr>
<tr>
<td>MIKROE-4494 UART MUX 2 Click</td>
<td>Uses the ICL3221, a 3.3V powered RS232 transmitter/receiver that provides ±15kV ESD protection.</td>
<td>$19</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4536 RS232 Isolator 2 Click</td>
<td>Uses the ICL3221, a 3.3V powered RS232 transmitter/receiver that provides ±15kV ESD protection.</td>
<td>$37</td>
<td></td>
</tr>
<tr>
<td>MIKROE-2851 2/3-Port EtherCAT® Slave Controller with Integrated Ethernet PHYs.</td>
<td>Uses the LAN9250, a fully-featured high-performance 10/100 Ethernet controller.</td>
<td>$39</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4381 ATA6571 Click</td>
<td>The PCA9615, a Fast-Mode Plus (FM+) I2C bus buffer from NXP.</td>
<td>$17</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4419 I2C Extend 2 Click</td>
<td>The BD41000AFJ-C, a transceiver for the Clock Extension Peripheral Interface (CXPI) communication.</td>
<td>$12</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4336 CXPI Click</td>
<td>The TCA9548APWR, a low voltage eight bidirectional translating switches with an active-low reset input.</td>
<td>$7</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4331 ISO 9141 Click</td>
<td>An adapter with socket for the capacitive fingerprint sensor module scanner.</td>
<td>$6</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4286 CAN FD 5 Click</td>
<td>A breakout board that simplifies the connection of MFI devices to the mikroBUS™ socket.</td>
<td>$7</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4241 8-pin I2C Click</td>
<td>The CY8C9540A, 40-bit I/O expander with EEPROM, and 8 independently config. 8-bit PWM outputs.</td>
<td>$24</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4244 EXPAND 7 Click</td>
<td>The TCA9548APWR, a low voltage eight bidirectional translating switches with an active-low reset input.</td>
<td>$7</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4262 I2C MUX 3 Click</td>
<td>The CY8C9520A, 20-bit I/O expander with EEPROM, and 4 independently config. 8-bit PWM outputs.</td>
<td>$15</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4265 Fingerprint 3 Click</td>
<td>The CY9306A, a 20-bit I/O expander with EEPROM, and 4 independently config. 8-bit PWM outputs.</td>
<td>$12</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4243 EXPAND 6 Click</td>
<td>The CY9306A, a 20-bit I/O expander with EEPROM, and 4 independently config. 8-bit PWM outputs.</td>
<td>$12</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4201 CAN FD Click</td>
<td>Based on the UJA1162A, a ‘self-supplied’ high-speed (HS) CAN transceiver.</td>
<td>$21</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4210 RS232 Click</td>
<td>Uses the ISL3221, a 3.3V powered RS232 transmitter/receiver that provides ±15kV ESD protection.</td>
<td>$12</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4202 UART MUX 2 Click</td>
<td>Features the MAX399, a precise CMOS analog multiplexer.</td>
<td>$12</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4203 EtherCAT Click</td>
<td>Uses the LAN9250, a fully-featured high-performance 10/100 Ethernet controller.</td>
<td>$12</td>
<td></td>
</tr>
<tr>
<td>MIKROE-4204 Reviews</td>
<td>Reviews of various components and systems.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DISPLAY & LED
**OLED B Click**
With a 96 x 31pp blue monochrome passive matrix OLED display and SSD1306 controller.
MSRP – $24\(^*\)

**OLED C Click**
With PISP7801 OLED display and SSD1351 OLED driver with controller. Various color support.
MSRP – $29\(^*\)

**MIKROE-1650**
**MSRP – $24**

**MIKROE-1585**
**MSRP – $29**

**OLED mini Click**
Carries a 96x31pp white monochrome passive matrix OLED display.
MSRP – $24\(^*\)

**OLED Driver Click**
Displays 2x16 mono- chrome characters on an LMB162XFP LCD display.
MSRP – $12\(^*\)

**OLED W Click**
Carries a 96x39pp white monochrome passive matrix OLED display.
MSRP – $24\(^*\)

**MIKROE-1649**
**MSRP – $24**

**MIKROE-1366**
With MAX7456 single-channel monochrome OSD module with integrated EEPROM memory.
MSRP – $35\(^*\)

**OSD Click**
Carries a full color single 7 segment digit display. 16,581,375 color combinations.
MSRP – $35\(^*\)

**LED light Temp Click**
The AL1782, a dual-channel PAM dimmable linear LED driver by Diodes Incorporated.
MSRP – $17\(^*\)

**16x9 G Click**
With a green 16x9 LED matrix and IS31FL3731 audio modulated matrix LED driver.
MSRP – $34\(^*\)

**MIKROE-2520**
**MSRP – $34**

**4X4 RGB Click**
Carries a matrix of 16 WS2812 RGB LEDs a 7805 1.2V dropout regulator.
MSRP – $19\(^*\)

**MIKROE-1881**
**MSRP – $19**

**Display & LED**

**16x8 C Click**
With a green 16x8 LED matrix and IS31FL3733 audio modulated matrix LED driver.
MSRP – $24\(^*\)

**BarGraph 3 Click**
Uses a single 74HC595 IC, a tri-state, serial-in, parallel-out, 8-bit shift-register with output latch.
MSRP – $12\(^*\)

**MIKROE-2734**
**MSRP – $29**

**7-SEG RGB Click**
Uses a single 74HC595 IC, a tri-state, serial-in, parallel-out, 8-bit shift-register with output latch.
MSRP – $12\(^*\)

**MIKROE-3264**
**MSRP – $15**

**Light Temp Click**
The AL1782, a dual-channel PAM dimmable linear LED driver by Diodes Incorporated.
MSRP – $17\(^*\)

**MIKROE-3399**
**MSRP – $17**

**7-SEG RGB Click**
Carries a full color single 7 segment digit display. 16,581,375 color combinations.
MSRP – $32\(^*\)

**MIKROE-2734**
**MSRP – $29**

**MIKROE-3399**
**MSRP – $17**
DISPLAY & LED

7x10 B Click
With a matrix of 70 blue LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $15.00

7x10 G Click
With a matrix of 70 green LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $15.00

7x10 R Click
With a matrix of 70 red LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $15.00

7x10 Y Click
With a matrix of 70 yellow LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $15.00

Big 7-SEG R Click
With 7-segment JFBL-A105102 light bar display and two 74HC595 8-bit shift registers.
MSRP – $15.00

Big 7-SEG G Click
With 7-segment JFBL-A105102 light bar display and two 74HC595 8-bit shift registers.
MSRP – $15.00

Big 7-SEG B Click
With 7-segment JFBL-A105102 light bar display and two 74HC595 8-bit shift registers.
MSRP – $15.00

Big 7-SEG Y Click
With 7-segment JFBL-A105102 light bar display and two 74HC595 8-bit shift registers.
MSRP – $15.00

8x8 B Click
It features MAX7219 8-digit LED display driver module as well as 64 BLUE LEDs.
MSRP – $12.00

8x8 G Click
It features MAX7219 8-digit LED display driver module as well as 64 GREEN LEDs.
MSRP – $12.00

8x8 R Click
It features MAX7219 8-digit LED display driver module as well as 64 RED LEDs.
MSRP – $12.00

8x8 Y Click
It features MAX7219 8-digit LED display driver module as well as 64 YELLOW LEDs.
MSRP – $12.00

LED Flash Click
Functions as a high power LED flash, and carries the CAT3224 flash LED driver.
MSRP – $12.00

LED Flash 2 Click
It is a powerful flash/torch Click, featuring the MIC2870 from Microchip.
MSRP – $12.00

LED R Click
With a ring of 32 red LEDs driven by four 74HC595 serial-in, parallel-out shift registers.
MSRP – $12.00

AlphaNum R Click
With a dual character red LED 24-segment display and two TLC5924 16-bit shift registers.
MSRP – $12.00

AlphaNum G Click
With a dual character green LED 24-segment display and two TLC5924 16-bit shift registers.
MSRP – $12.00

Matrix 6 Click
Matrix text display with two green 5x7 matrices and two MAX745A 8-bit LED display drivers.
MSRP – $12.00

eINK Click
With an adapter for connecting an eINK display, with a 24pin ribbon cable.
MSRP – $59.00

EVE Click
Brings visually stunning graphics even to 8-bit MCUs, with FT800Q graphics controller.
MSRP – $39.00

Matrix G Click
Matrix text display with two green 5x7 matrices and two MAX745A 8-bit LED display drivers.
MSRP – $29.00

BarGraph Click
With 10-segment JSB-R102510Z light bar display and two 74HC595 8-bit shift registers.
MSRP – $12.00

BIG 7-SEG R Click
With 7-segment JFBL-A105102 light bar display and two 74HC595 8-bit shift registers.
MSRP – $15.00

BIG 7-SEG G Click
With 7-segment JFBL-A105102 light bar display and two 74HC595 8-bit shift registers.
MSRP – $15.00

16x12 G Click
Carries a 16x12 LED display and the IS-3FL3733 matrix driver with 1/12 cycle rate.
MSRP – $30.00

16x12 R Click
Carries a 16x12 LED display and the IS-3FL3733 matrix driver with 1/12 cycle rate.
MSRP – $30.00

16x12 Y Click
Carries a 16x12 LED display and the IS-3FL3733 matrix driver with 1/12 cycle rate.
MSRP – $30.00

16x12 B Click
Carries a 16x12 LED display and the IS-3FL3733 matrix driver with 1/12 cycle rate.
MSRP – $30.00

8x8 R Click
With a matrix of 64 red LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $11.00

8x8 Y Click
With a matrix of 64 yellow LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $11.00

8x8 G Click
With a matrix of 64 green LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $11.00

8x8 B Click
With a matrix of 64 blue LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $11.00

7x10 B Click
2-digit seven-segment display. With two 74HC595 8-bit serial-in, parallel-out shift registers.
MSRP – $11.00

7x10 G Click
2-digit seven-segment display. With two 74HC595 8-bit serial-in, parallel-out shift registers.
MSRP – $11.00

7x10 R Click
2-digit seven-segment display. With two 74HC595 8-bit serial-in, parallel-out shift registers.
MSRP – $11.00

7x10 Y Click
2-digit seven-segment display. With two 74HC595 8-bit serial-in, parallel-out shift registers.
MSRP – $11.00

Display & LED
DISPLAY & LED
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### 4Dot-Matrix R Click
- **MSRP**: $59
- Displays 4 char. of 5x7 dot size.
- With 1602016 module and MCP23017 I2C port expander.

### Matrix R Click
- **MSRP**: $39
- Matrix text display with two 5x7 matrices and two MAX7219 8-bit LED display drivers.

### MIKROE-2706
- **MSRP**: $29
- Display Matrix R Click.

### MIKROE-2245
- **MSRP**: $44
- Display Matrix R Click.

### MIKROE-2034
- **MSRP**: $20
- Display Matrix R Click.

### MIKROE-2746
- **MSRP**: $20
- Display Matrix R Click.

### MIKROE-2840
- **MSRP**: $20
- Display Matrix R Click.

### OLED Switch Click
- **MSRP**: $99
- With NKK Switch IS-C15ANP4 that combines a switch and a full-color organic LED display.

### BarGraph 2 Click
- **MSRP**: $19
- The 74HC595, an 8-bit serial-in, parallel-out shift register.

### RGB Driver Click
- **MSRP**: $15
- The NCP5623B, a triple output RGB LED driver, controlled via the I2C interface.

### LED Driver Click
- **MSRP**: $26
- Carries the MCP1664 - LED constant current regulator, made by Microchip.

### LED Driver 2 Click
- **MSRP**: $15
- Carries the MCP1668 - LED constant current regulator, made by Microchip.

### LED Driver 3 Click
- **MSRP**: $15
- The TPS61160A, a white LED driver with PWM brightness control.

### LED Driver 4 Click
- **MSRP**: $15
- The TPS61210A, a white LED driver with PWM brightness control.

### 10x10 RGB Click
- **MSRP**: $39
- A matrix of 100 "intelligent" RGB elements - WS2812 an intelligent control LED light source.

### UVC Light Click
- **MSRP**: $55
- With ultraviolet LEDs with 275nm wavelength for measuring exact dose of UV radiation.

### Dot Matrix R Click
- **MSRP**: $39
- Based on a four-digit dot matrix display module, labeled as HMMS-3906.
The PCA9957 is a serial-chain SPI compatible 4-wire serial bus controlled 24-channel LED driver.

MSRP – $7

MIKROE-4268 LED Driver 8 Click
HUMAN MACHINE INTERFACE

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**Cap Extend 2 Click**
With four capacitive sensor pads that can sense touch through a variety of different materials.
MSRP - $16

---

**Cap Touch Click**
A capacitive touch sensing button, which features the CAP1166.
MSRP - $11

---

**SwipeSwitch Click**
The QD96Q, a trackpad controller circuit, featuring ProxSense® and IQ Switch® technologies from Azoteq.
MSRP - $15

---

**CAP Wheel 2 Click**
The IQS266, a trackpad controller circuit, featuring ProxSense® and IQ Switch® technologies from Azoteq.
MSRP - $15

---

**Cap Touch 2 Click**
A capacitive touch sensing button, integrated on a Click board.
MSRP - $11

---

**TouchKey 2 Click**
Equipped with advanced capacitive sensors, based on the proprietary Touch™ technology.
MSRP - $12

---

**TouchKey 3 Click**
With 4 capacitive pads powered by Microchip’s ATtiny117. Integrated touch (Touch™) controller.
MSRP - $11

---

**SAML Touch Click**
The ATSAM10, an ultra-low-power 32-bit ARM® Cortex™ MicroController Unit (MCU) from Microchip.
MSRP - $11

---

**TouchKey 4 Click**
A capacitive touch sensing button, with the advanced touch/ proximity sensor IC.
MSRP - $11

---

**SwipeSwitch 3 Click**
The IQS263A, ProxSense® IC, a 3-channel projected capacitive proximity and TC from Azoteq.
MSRP - $15

---

**CAP Wheel Click**
The IQS333, ProxSense® IC, a 3-channel projected capacitive proximity and TC from Azoteq.
MSRP - $15

---

**Cap Extend 3 Click**
With four capacitive sensor pads that can sense touch through a variety of different materials.
MSRP - $16

---

**Cap Touch Click**
A capacitive touch sensing button, integrated on a Click board.
MSRP - $11

---

**TouchKey 3 Click**
Equipped with advanced capacitive sensors, based on the proprietary Touch™ technology.
MSRP - $15

---

**CAP Wheel 2 Click**
The IQS266, a trackpad controller circuit, featuring ProxSense® and IQ Switch® technologies from Azoteq.
MSRP - $15

---

**Cap Touch 2 Click**
A capacitive touch sensing button, integrated on a Click board.
MSRP - $15

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**TouchKey 2 Click**
Equipped with advanced capacitive sensors, based on the proprietary Touch™ technology.
MSRP - $15

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**TouchKey 3 Click**
With 4 capacitive pads powered by Microchip’s ATtiny117. Integrated touch (Touch™) controller.
MSRP - $15

---

**SAML Touch Click**
The ATSAM10, an ultra-low-power 32-bit ARM® Cortex™ MicroController Unit (MCU) from Microchip.
MSRP - $15

---

**TouchKey 4 Click**
A capacitive touch sensing button, with the advanced touch/ proximity sensor IC.
MSRP - $15
Tamper Click  
Equipped with SD001, a low profile side-actuated detact switch.  
MSRP – $9

Button PLAY Click  
It is equipped with the CTHS13CDSARRW; a capacitive touch sensor display.  
MSRP – $21

Knob G Click  
Combination of high-quality quadrature rotary encoder, and a LED ring of 24 individual green LEDs.  
MSRP – $24

Slider Click  
Features a mechanical slide action potentiometer.  
MSRP – $11

Tamper 2 Click  
Levered DH26-A202D switch. Outputs signal in both positions - pressed and released.  
MSRP – $15

Button PLAY Click  
Combination of high-quality quadrature rotary encoder, and a LED ring of 16 blue LEDs.  
MSRP – $12

Rotary Y Click  
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 yellow LEDs.  
MSRP – $12

Rotary B Click  
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 blue LEDs.  
MSRP – $12

Rotary G Click  
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 green LEDs.  
MSRP – $12

Rotary O Click  
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 orange LEDs.  
MSRP – $12

Rotary R Click  
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 red LEDs.  
MSRP – $12

Joystick Click  
A smart navigation key concept based on contactless, magnetic movement detection.  
MSRP – $22

Keylock Click  
Carries a processed sealed key lock mechanism that can be set in 3 different positions.  
MSRP – $12

CapSense Click  
Capacitive sensing module. Input - human body capacitance, output - the real time sensor information.  
MSRP – $16

Counter Click  
Counter Click carries an LS7366R 32-bit quadrature counter.  
MSRP – $25

IR gesture Click  
Enables contactless gesture recognition. With ambient light and proximity sensing capabilities.  
MSRP – $16

2x2 Key Click  
The Click has a 4 button keypad. It allows multiple key presses and has a debounce circuit.  
MSRP – $22

4x4 Key Click  
Carries a 16 button keypad. Allows for multiple key presses at the same time.  
MSRP – $25

Button 0 Click  
A single pushbutton - transparent, 6.8mm in diameter, with a green LED backlight.  
MSRP – $9

Button R Click  
A single pushbutton - transparent, 6.8mm in diameter, with a red LED backlight.  
MSRP – $18

Cap Extend Click  
With SX8633, capacitive button touch controller. 12 pads for connecting capacitive inputs.  
MSRP – $22

2x2 Key Click  
The Click has a 4 button keypad. It allows multiple key presses and has a debounce circuit.  
MSRP – $22

4x4 Key Click  
Carries a 16 button keypad. Allows for multiple key presses at the same time.  
MSRP – $25

Button 0 Click  
A single pushbutton - transparent, 6.8mm in diameter, with a green LED backlight.  
MSRP – $9

Button R Click  
A single pushbutton - transparent, 6.8mm in diameter, with a red LED backlight.  
MSRP – $18

Cap Extend Click  
With SX8633, capacitive button touch controller. 12 pads for connecting capacitive inputs.  
MSRP – $22
ProxFusion®
MIKROE-3205
MSRP – $9
00
The IQS621, a multi-functional sensor with the ambient light (ALS) from Azoteq.

Button Y Click
MIKROE-3262
MSRP – $9
90
Designed with the high-quality, single-pole, single-throw (SPST) tactile switch labeled as 3006.2111.

Analog Key Click
MIKROE-3409
MSRP – $14
00
The KMR2 series KMR221 tactile buttons are high-quality SPST switches produced by CKSwitches.

Thumb stick Click
MIKROE-1627
MSRP – $20
00
A high precision input device with a dual axis, spring return and push-button-enabled joystick.

Touch pad Click
MIKROE-1995
MSRP – $15
00
Capacitive touch input device driven by Microchip’s MTCH6102 controller.

Touch Key Click
MIKROE-1906
MSRP – $12
00
It has four capacitive pads powered by TTP224, a touch-pad detector IC.

Thumb wheel Click
MIKROE-2366
MSRP – $29
00
With a 10-position rotary sprocket connected to a 1-Wire 8-Channel Addressable Switch.

POT Click
MIKROE-3471
MSRP – $28
00
Uses SK13AEG13 switch keylock from the company NKK Switches.

Key lock 2 Click
MIKROE-3402
MSRP – $12
00
Uses the MCP1501, a precision voltage reference IC from Microchip.

Cap Touch 5 Click
MIKROE-3740
MSRP – $19
00
With the CTHS15CIC05ONOFF, a capacitive touch sensor display.

Power/Reset Click
MIKROE-3713
MSRP – $12
00
IT’s the QT1011, digital burst mode charge-transistor sensor – detects near proximity or touch.

Joystick 2 Click
MIKROE-3711
MSRP – $15
00
With a SKRHABE01, a 4-direction joystick switch with Center-push Function.

Fingerprint Click
MIKROE-1722
MSRP – $55
00
It carries the GTS-511E2 module, the thinnest optical touch fingerprint sensor in the world.

Slider 2 Click
MIKROE-2025
MSRP – $23
00
Utilizes the PTA3043, a linear, high-grade, 10K potentiometer.
The LC898302AXA, a motor driver dedicated to LRA and ERM applications.

**MIKROE-4452**

**HAPTIC 2 Click**

Features the MTCH6301, a turnkey capacitive touch and proximity controller.

MSRP – $11

**MIKROE-4382**

**TouchPad 3 Click**

Features the MTC86301, a turnkey capacitive touch controller.

MSRP – $12

**MIKROE-4356**

**Vibro Motor 3 Click**

The A-172-MRQ, a 2D capacitive fingerprint sensor capable of storing up to 24 different fingerprints.

MSRP – $45

**MIKROE-4119**

**Fingerprint 2 Click**

Features the IQS2692A, an 8-channel ProxFusion® capacitive touch and proximity controller.

MSRP – $12

**MIKROE-4469**

**ProxFusion 3 Click**

Features the G0832022D, a coin-sized linear resonant actuator (LRA).

MSRP – $15

**POT 2 Click**

The MCP1541, a precision voltage reference IC from Microchip is used to provide the voltage of 4.096V.

MSRP – $12

**STORAGE**
Flash 3 Click
With ISSI’s IS25LP128 IC with 128 Mbit capacity. 50MHz at normal, 133MHz at Fast read speeds.
MSRP – $12

Flash 4 Click
Carries the IS25FL128, a 128 Mbit SPI Flash memory module.
MSRP – $12

Excelon-LP Click
Equipped with the CY-356108, a serial ferro-electric (FRAM) module with 8 Mbit density.
MSRP – $12

MAC Address Click
A unique node address. Carries 24AA025E64 2Kb Serial EEPROM with EUI-64™ node identity.
MSRP – $9

FRAM 2 Click
With CY15B104Q 4-Mbit (512k x 8) serial F-RAM from Cypress. 100 trillion (10^14) read/writes.
MSRP – $12

EEPROM Click
With M95M02-I/08P-8 socket EEPROM chip with 256 KB of memory from STMicroelectronics.
MSRP – $12

EEPROM 2 Click
With AT24C02-I/P-8 socket EEPROM chip with 256 KB of memory from Microchip.
MSRP – $12

EEPROM 3 Click
With 24LC1602-I/P-8 socket EEPROM chip with 256 KB of memory from Microchip.
MSRP – $14

EERAM 3.3V Click
With 47L16 EERAM, a 16Kbit SRAM with EEP-ROM Backup from Microchip.
MSRP – $12
STORAGE

**EERAM 5V Click**
With 4721G EERAM, a 16kbit SRAM with EEPROM Backup from Microchip.
MSRP – $14

**Flash Click**
With EN51208B - 8M serial Flash memory module. Clock frequency up to 75MHz.
MSRP – $10

**MRAM Click**
It carries Microchip’s SST26VF064B flash-memory module from Exarxchip company.
MSRP – $18

**Dual EE Click**
Contains 2 EEPROM ICs onboard – the AT24C32, an I2C serial EEPROM.
MSRP – $12

**EEPROM 4 Click**
Based on the W25Q128JV, an EEPROM memory medium with the capacity of 256KB.
MSRP – $9

**Flash 6 Click**
The DS29L11T, a 512 Mbit SPI/QSPI Flash memory module, from Cypress.
MSRP – $15

**Semper Flash 2 Click**
The ANV32AA1WDK66, an EEPROM memory medium with hidden EEPROM backup.
MSRP – $14

**SRAM 3 Click**
Features the MR10Q010, 1Mb Quad Output High-Speed Serial SPI MRAM memory.
MSRP – $19

**MRAM 2 Click**
Based on ANV32A62A SRAM memory from Anvo-Systems Dresden.
MSRP – $15

**EEPROM 2 Click**
A static RAM (SRAM) memory Click board™ with hidden EEPROM backup.
MSRP – $14

**SRAM 2 Click**
Based on AVX30A26A SRAM memory from Avx-Systems Dresden.
MSRP – $11

**ReRAM Click**
Resistive Random Access Memory module which contains the cell array with 4 Mbits of data.
MSRP – $12

**FRAM Click**
256K (32,768 words x 8 bits) of Ferroelectric Random Access Memory with MB94R330A module.
MSRP – $10

**Semper Flash 2 Click**
The DS29L11T, a 512 Mbit SPI/QSPI Flash memory module, from Cypress.
MSRP – $9

**Flash 5 Click**
Based on the W25Q128JV/ET, which is an FRAM (Ferroelectric Random Access Memory).
MSRP – $7

**SRAM 3 Click**
A static RAM (SRAM) memory Click board™ with hidden EEPROM backup.
MSRP – $14

**Flash 6 Click**
The DS29L128, a 256Kbit-bi EEPROM organized as 80 memory pages of 256 bytes each.
MSRP – $19

**EERAM 5V Click**
With 4721G EERAM, a 16kbit SRAM with EEPROM Backup from Microchip.
MSRP – $14

**Flash Click**
With EN51208B - 8M serial Flash memory module. Clock frequency up to 75MHz.
MSRP – $10

**MRAM Click**
It carries Microchip’s SST26VF064B flash-memory module from Exarxchip company.
MSRP – $18

**Dual EE Click**
Contains 2 EEPROM ICs onboard – the AT24C32, an I2C serial EEPROM.
MSRP – $12

**EEPROM 4 Click**
Based on the W25Q128JV, an EEPROM memory medium with the capacity of 256KB.
MSRP – $9

**Flash 6 Click**
The DS29L11T, a 512 Mbit SPI/QSPI Flash memory module, from Cypress.
MSRP – $15

**Semper Flash 2 Click**
The ANV32AA1WDK66, an EEPROM memory medium with hidden EEPROM backup.
MSRP – $14

**SRAM 3 Click**
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MSRP – $19

**MRAM 2 Click**
Based on ANV32A62A SRAM memory from Anvo-Systems Dresden.
MSRP – $15

**EEPROM 2 Click**
A static RAM (SRAM) memory Click board™ with hidden EEPROM backup.
MSRP – $14

**SRAM 2 Click**
Based on AVX30A26A SRAM memory from Avx-Systems Dresden.
MSRP – $11
The AT21CS01, a single-wire serial EEPROM with a factory-programmed 64-bit serial number.

Features the M95M04, the 4Mbit electrically erasable programmable memory.

The CY14B101Q, a 1Mbit nvSRAM organized as 128K words of 8 bits each.

Features the CY14B101J, a 1-Mbit nvSRAM organized as 128K words of 8 bits each.

Features the CY14B101I, a 1-Mbit nvSRAM organized as 128K words of 8 bits each.

With the GD25LQ16C, a high-performance 16Mbit SPI NOR Flash Memory solution.

The 25CSM04, a 4-Mbit SPI Serial EEPROM with a 128-bit serial number and write protection mode.
Secure Click
With ATECC508A cryptographic coprocessor with secure hardware-based key storage.
MSRP – $9

Secure 2 Click
Microchip’s ATECC133A, a cryptographic coprocessor with secure hardware-based key storage.
MSRP – $9

Secure 3 Click
Microchip’s ATECC133A, a cryptographic coprocessor with secure hardware-based key storage.
MSRP – $9

Secure 4 Click
Microchip’s ATECC133A, a cryptographic coprocessor with secure hardware-based key storage.
MSRP – $9

Secure 5 Click
The ATECC508A integrates ECDH (Elliptic Curve Diffie Hellman) security protocol.
MSRP – $9

Secure 6 Click
The ATECC608A integrates ECDH (Elliptic Curve Diffie Hellman) security protocol.
MSRP – $7

Secure 7 Click
The ATECC608A integrates ECDH (Elliptic Curve Diffie Hellman) security protocol.
MSRP – $7

RELAY Click
With two G6D1AA SI-5DC power PCB relay modules. Controls up to 5A, 250V AC/30V DC loads.
MSRP – $18

PROTO Click
18x11 prototyping area and additional power pads for creating custom electronics or Click boards.
MSRP – $4

TI’s NA556 dual precision timer and Omron’s G6D-ASI power PCB relay, ON/OFF 0.1-6 sec.

MSRP – $19

Unique ID Click
With DS2401 enhanced silicon serial number IC. Provides a unique registration number.

MSRP – $22

Opto 2 Click
Uses four TL2770, 20-Mbps low-power optocouplers, from Toshiba.

MSRP – $25

Signal Relay Click
It carries four ultra-small DVS-1 PCB relays from Omron. For ON/OFF control.

MSRP – $29

Secure UDFN Click
It’s an universal socket that supports any Microchip security SOIC IC device.

MSRP – $39

Secure SOIC Click
It’s an universal socket that supports any Microchip security SOIC IC device.

MSRP – $21

Opto 3 Click
Two pairs of normally opened, high-quality solid-state relays labeled as TLP241A.

MSRP – $25

Relay 3 Click
It features two SRD-05VDC-SL-C small-size relays, from Songle Relays.

MSRP – $18

Opto 4 Click
The LTV-817S, an optocoupler with a high isolation voltage, by LITEON.

MSRP – $16
<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>MSRP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brushless 6</td>
<td>MIKROE-2847</td>
<td>$27.00</td>
<td>Designed to drive a three-phase sensorless, brushless motor. With ATmega8A</td>
</tr>
<tr>
<td>Fan 3</td>
<td>MIKROE-2841</td>
<td>$17.90</td>
<td>Perfect solution for speed control. It can operate in seven discrete speed</td>
</tr>
<tr>
<td>DC Motor 8</td>
<td>MIKROE-2893</td>
<td>$18.00</td>
<td>Perfect solution for speed control. It can operate in seven discrete speed</td>
</tr>
<tr>
<td>H-Bridge 2</td>
<td>MIKROE-3000</td>
<td>$18.00</td>
<td>Uses the MPC17510, an H-Bridge DC motor driver, with up to 15V and 1.2A,</td>
</tr>
<tr>
<td>H-Bridge 5</td>
<td>MIKROE-3032</td>
<td>$19.00</td>
<td>Uses the A4941, a three-phase sensorless fan driver IC, made by Allegro</td>
</tr>
<tr>
<td>DC Motor 9</td>
<td>MIKROE-3031</td>
<td>$16.00</td>
<td>Uses the MC34933, a dual H-bridge driver, from NXP.</td>
</tr>
<tr>
<td>Motor Control</td>
<td>MIKROE-3109</td>
<td>$13.00</td>
<td>Uses the TM2208, a highly integrated bipolar step motor power driver, with</td>
</tr>
<tr>
<td>Stepper 5</td>
<td>MIKROE-2624</td>
<td>$17.00</td>
<td>Uses the DRV777, an integrated motor and relay driver from Texas Instruments.</td>
</tr>
</tbody>
</table>
A 16-channel PWM servo driver with the voltage sensing circuitry.
MSRP – $25

A two-wire fan driver. Utilizes the LTC1695, an I2C fan speed controller.
MSRP – $15

DC MOTOR 9 Click
The DB8871, a brushed DC motor driver, with internal current sensing, by Texas Instruments.
MSRP – $19

DC MOTOR 11 Click
The DRV8830, a Low-Voltage Motor Driver With Serial Interface, by Texas Instruments.
MSRP – $19

A two-wire fan driver. Utilizes the LTC1695, an I2C fan speed controller.
MSRP – $15

Advanced PWM chopper-type integrated DC motor driver, labeled as TB67H400AFTG.

MIKROE-3133
MSRP – $25

MIKROE-3289
MSRP – $19

MIKROE-3200
MSRP – $15

MIKROE-2272
MSRP – $19

MIKROE-2754
MSRP – $26

MIKROE-1526
MSRP – $18

MIKROE-2748
MSRP – $14

MIKROE-2708
MSRP – $19

MIKROE-2047
MSRP – $19

MIKROE-2221
MSRP – $15

MIKROE-2035
MSRP – $19

MIKROE-2766
MSRP – $19

MIKROE-2441
MSRP – $39

MIKROE-2699
MSRP – $17

MOTOR CONTROL

DC MOTOR 1 Click
The DRV8871, a brushed DC motor driver, with internal current sensing, by Texas Instruments.
MSRP – $15

DC MOTOR 2 Click
The DRV8830, a Low-Voltage Motor Driver With Serial Interface, by Texas Instruments.
MSRP – $19

DC MOTOR 3 Click
With Toshiba’s TB-6593F-NG driver IC for direct current motors. Motors’ supply voltage 2.5V-13V.
MSRP – $19

DC MOTOR 4 Click
With MAX14870 motor driver from Maxim Integrated. Motors’ voltage supply 4.5V-36V.
MSRP – $12

DC MOTOR 5 Click
With Toshiba’s TB6549FG full-bridge driver for direct current motors. Up to 3.5A with 30V.
MSRP – $18

DC MOTOR 6 Click
With TI’s DRV8701 brushed DC motor full-bridge gate driver. Operating voltage supply 5.9V-45V.
MSRP – $11.7

DC MOTOR 7 Click
Toshiba’s TB6575F-NG IC for driving 3-phase full-wave Brushless DC motors.
MSRP – $39

DC MOTOR 8 Click
Toshiba’s TB6589F-NG driver IC for direct current motors. Motors’ supply voltage 2.5V-13V.
MSRP – $19

PWM driver Click
Silicon Labs’ SL8711CC one-channel isolator for controlling DC motors with loads up to 10A.
MSRP – $12.5

STEPPER Click
With A3967SLBT microstepping motor driver with a built-in translator. Max. output drive 30V, ±500 mA.
MSRP – $11.8

STEPPER 2 Click
With A4988 microstepping motor driver. Required external power supply minimum 7V.
MSRP – $12.5

STEPPER 3 Click
With TI’s UN2003 High-Current Darlington transistor array. For precise motor control.
MSRP – $11.8

STEPPER 4 Click
With TB67S269FTG two-phase bipolar stepping motor driver from Toshiba.
MSRP – $12.5

MIKROE-2699
MSRP – $17

MIKROE-2004
MSRP – $9.90

MIKROE-2708
MSRP – $12

MIKROE-2748
MSRP – $14

MIKROE-2035
MSRP – $19

MIKROE-2272
MSRP – $19

MIKROE-1526
MSRP – $18

MIKROE-2766
MSRP – $19

MIKROE-2441
MSRP – $39

MIKROE-2221
MSRP – $15

MIKROE-2708
MSRP – $19

MIKROE-2035
MSRP – $19

MIKROE-2272
MSRP – $19

MIKROE-1526
MSRP – $18

MIKROE-2766
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MIKROE-2441
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MIKROE-2766
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MIKROE-2221
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MIKROE-2272
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MSRP – $19

MIKROE-2272
MSRP – $19

MIKROE-1526
MSRP – $18

MIKROE-2766
MSRP – $19

MIKROE-2441
MSRP – $39

MIKROE-2221
MSRP – $15

MIKROE-2708
MSRP – $19

MIKROE-2035
MSRP – $19

MIKROE-2272
MSRP – $19

MIKROE-1526
MSRP – $18

MIKROE-2766
MSRP – $19

MIKROE-2441
MSRP – $39

MIKROE-2221
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MIKROE-2035
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MIKROE-2272
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MIKROE-1526
MSRP – $18

MIKROE-2766
MSRP – $19

MIKROE-2441
MSRP – $39
<table>
<thead>
<tr>
<th>Stepper 6 Click</th>
<th>DC MOTOR 10 Click</th>
<th>Fan 6 Click</th>
<th>Silent Step Click</th>
<th>Stepper 13 Click</th>
</tr>
</thead>
<tbody>
<tr>
<td>The DRV8886, a highly integrated bipolar step motor driver with current sensing, from TI.</td>
<td>The TLE6208-6 G, a Hex-Half-Bridge-Driver made for auto. and industrial motion control app.</td>
<td>The EMD2103 includes an RPM based Fan Speed Control Algorithm.</td>
<td>The TMC5250 - the universal high voltage controller/driver for 2-phase bipolar stepper motor.</td>
<td>The step motor driver IC is the MP6500, a dual full-bridge motor driver.</td>
</tr>
<tr>
<td>MSRP – $23,000</td>
<td>MSRP – $17,000</td>
<td>MSRP – $16,000</td>
<td>MSRP – $12,000</td>
<td>MSRP – $11,000</td>
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<thead>
<tr>
<th>MIKROE-3214</th>
<th>MIKROE-3879</th>
<th>MIKROE-3867</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>The TMC2660, a highly integrated bipolar step motor power driver, from Trinamic.</th>
<th>The step motor driver IC is the MP6500, a dual full-bridge motor driver.</th>
<th>The step motor driver IC is the MP6500, a dual full-bridge motor driver.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSRP – $27,000</td>
<td>MSRP – $17,000</td>
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<tr>
<th>MIKROE-3676</th>
<th>MIKROE-3546</th>
<th>MIKROE-3546</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>The STSPIN220, a low voltage stepper motor driver by STMicroelectronics.</th>
<th>The STSPIN250, a brushed DC motor driver with the current limiting and current sensing.</th>
<th>The STSPIN820, an advanced stepper motor driver produced by STMicroelectronics.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSRP – $12,000</td>
<td>MSRP – $9,000</td>
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<th>MIKROE-3545</th>
<th>MIKROE-3543</th>
<th>MIKROE-3544</th>
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</table>

<table>
<thead>
<tr>
<th>The TB67H451FNG, a PWM chopper-type brushed DC motor driver.</th>
<th>Uses the DRV8876N IC, N-channel H-bridge motor driver.</th>
<th>Uses the DRV8876N IC, N-channel H-bridge motor driver.</th>
</tr>
</thead>
<tbody>
<tr>
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<th>MIKROE-4125</th>
<th>MIKROE-4143</th>
<th>MIKROE-4143</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Based on TC78H-670FTG, a click-in and serial controlled Bipolar Stepping Motor Driver.</th>
<th>Uses the DRV8876N IC, N-channel H-bridge motor driver.</th>
<th>Uses the DRV8876N IC, N-channel H-bridge motor driver.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSRP – $12,000</td>
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<th>MIKROE-3613</th>
<th>MIKROE-3787</th>
<th>MIKROE-3854</th>
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</table>

<table>
<thead>
<tr>
<th>The TLE9201SG, an H-Bridge DC motor driver, with up to 28V and 6A, from Infineon.</th>
<th>Contains the AP1010AEN, which is a two channel H-Bridge motor driver.</th>
<th>Contains the AP1010AEN, which is a two channel H-Bridge motor driver.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSRP – $15,000</td>
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<tr>
<th>MIKROE-4114</th>
<th>MIKROE-4138</th>
<th>MIKROE-4157</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>The DRV8876N, a step motor driver with bipolar step motor controller.</th>
<th>Uses the DRV8876N IC, N-channel H-bridge motor driver.</th>
<th>Features the DRV887W, a step motor driver with bipolar step motor controller.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSRP – $12,000</td>
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</tr>
</thead>
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<tr>
<th>Uses the DRV8876N IC, N-channel H-bridge motor driver.</th>
<th>Uses the DRV8876N IC, N-channel H-bridge motor driver.</th>
<th>Uses the DRV8876N IC, N-channel H-bridge motor driver.</th>
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</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Description</td>
<td>IC</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Brushless 7 Click</td>
<td>Based on TC78B-006FTG IC which is a three-phase BLDC motor controller.</td>
<td>TC78B-006FTG</td>
</tr>
<tr>
<td>DC Motor 16 Click</td>
<td>The X8M3010 a high-performance single phase reversible DC motor drive with speed control.</td>
<td>X8M3010</td>
</tr>
<tr>
<td>DC Motor 1.5 Click</td>
<td>Features the DRV8874, an integrated motor driver with H-bridge.</td>
<td>DRV8874</td>
</tr>
<tr>
<td>Driver 2 Click</td>
<td>Features the IRF140, a high voltage, high-speed power MOSFET and IGBT driver.</td>
<td>IRF140</td>
</tr>
<tr>
<td>H-Bridge 6 click</td>
<td>Features the VN-HD7008AY, an H-bridge motor driver for automotive DC motor.</td>
<td>VN-HD7008AY</td>
</tr>
<tr>
<td>Brushless 12 Click</td>
<td>Features the L8238, SMOS fully integrated 3-phase motor driver.</td>
<td>L8238</td>
</tr>
<tr>
<td>DC Motor 1.7 Click</td>
<td>Features the TC78H-660FTG, a dual H-bridge driver for one or two brushed motors.</td>
<td>TC78H-660FTG</td>
</tr>
<tr>
<td>Brushless 8 Click</td>
<td>The TC8850/2FTG, a single-phase full-wave brushless motor controller.</td>
<td>TC8850/2FTG</td>
</tr>
<tr>
<td>Brushless 9 Click</td>
<td>The TC8850/2FTG, a 1.5-Half sine-wave PWM controller for three-phase brushless DC motors.</td>
<td>TC8850/2FTG</td>
</tr>
</tbody>
</table>
**SpeakUp 2 Click**
A speech recognition Click. Can recognize over 100 different voice commands.
MSRP – $34

**Audio Amp 4 Click**
With the LM4860, an audio amplifier IC capable of delivering up to 1W of continuous power to an 8Ω load.
Two-band digitally controlled high-quality audio processor with BASS ALC feat. and a 4-channel input selector.
MSRP – $17

**Audio Amp 6 Click**
The TPA3138D2, a stereo class-D audio amplifier, from Texas Instruments.

**MIC 2 Click**
The MCP6022, a dual, rail-to-rail, low noise operational amplifier from Microchip.
MSRP – $14

**Rec&Play Click**
The ISD3900, a multi-message record and playback device with ChipCorder® technology, by Nuvoton.
MSRP – $15

**2x20W Amp Click**
Carries MAX9744 stereo class-D audio power amplifier from Maxim Integrated.
Functions as an amplifier with TDA7491LP 2x5-watt dual BTL class-D audio amplifier.
MSRP – $21

**2x5W AMP Click**
MSRP – $19

**AudioMUX Click**
Two-band digitally controlled high-quality audio processor with BASS ALC feat. and a 4-channel input selector.
MSRP – $17

**SpeakUp Click**
A speech recognition Click. Set it up to recognize up to 100 commands.
MSRP – $34

**Audio Amp 5 Click**
The TPA3138D2, an inductorless stereo class-D audio amplifier, from Texas Instruments.
**Audio Amp Click**
A mono audio amplifier. With TI’s LM48100Q-Q1 Boomer™ Mono, 1.3W Audio Power Amplifier IC.

MSRP – $14.00

**BUZZ Click**
Features a piezo speaker capable of emitting audio signals. Resonant frequency 3.8 kHz.

MSRP – $9.00

**StereoAmp Click**
With 2 TI’s LM48100Q-Q1 Boomer™ single supply, mono, bridge-tied load amplifier ICs.

MSRP – $12.00

**TextToSpeech Click**
With S1V30120 speech synthesis IC powered by the Fonix DECtalk® v5 speech synthesis engine.

MSRP – $23.00

**StereoAmp 2 Click**
With 2 TI’s LM48100Q-Q1 Boomer™ single supply, mono, bridge-tied load amplifier ICs.

MSRP – $13.00

**GainAMP 2 Click**
A 6-channel programmable gain amplifier. Amplifies up to 32x, in eight discrete steps.

MSRP – $15.00

**RadioStation Click**
With the SW713-B30, the best in class integrated FM broadcast stereo transmitter.

MSRP – $12.00

**Noise Click**
With noise detecting circuitry. Enables you to set a noise detection threshold.

MSRP – $12.00

**FM Click**
Features SH7031 IC and functions as a FM radio tuner. Supports worldwide FM band [76-108 MHz].

MSRP – $12.00

**GainAMP Click**
Carries LTC6912 channel, low noise, digitally programmable gain amplifier (PGA).

MSRP – $21.90

**AM/FM Click**
Based on the SI4731 IC - digital CMOS AM/ FM radio receiver from Silicon Labs.

MSRP – $18.00

**Audio Amp 3 Click**
Based on the SI4731 IC - digital CMOS AM/ FM radio receiver from Silicon Labs.

MSRP – $18.00

**Audio Amp 2 Click**
With a stereo MP3 decoder VS1053. Multiple formats (MP3, MP1, MP2, MPEG4, etc.)

MSRP – $21.90

**2x30W Amp Click**
The TPA3128, 2x30-W class-D amplifier with low idle power dissipation, from TI.

MSRP – $17.00

**GainAMP Click**
Based on KT403A, a hardware audio MP3/MP4 decoder and DSP, with on-board microSD card slot.

MSRP – $17.00

**Audio Xover Click**
Features the SSM2167-1RMZ-R7, a Microphone Preamplifier.

MSRP – $15.00

**Mic Click**
An analog active crossover solution for two-way loudspeakers with MCP6H012.

MSRP – $11.00

**Mic 3 click**
Features the SSMM2167-1RMZ-R7, a Microphone Preamplifier.

MSRP – $11.00

**MIC 2 click**
Based on KT403A, a hardware audio MP3/MP4 decoder and DSP, with on-board microSD card slot.

MSRP – $11.00
Features the MT8870D, a complete DTMF receiver integrating the band-split filter.

**MSRP – $16,000**

**MIKROE-4579**

**DTMF Decoder Click**

Features the HT1020A, a dual-tone multi-frequency decoder.

**MSRP – $115**

**MIKROE-4298**

**DTMF Generator Click**

Features the HT1020A, a dual-tone multi-frequency decoder with a Multi-Mode charge pump boost converter.

**MSRP – $19**

**MIKROE-4390**

**BUZZ 3 Click**

The PAM8904, a piezo-sounder driver with a Multi-Mode charge pump boost converter.

**MSRP – $9,95**

**MIKROE-4431**

**Volume Click**

Based on the CS3310, a complete stereo digital volume control.

**MSRP – $43,15**

**MIKROE-4450**

**DSP Click**

Based on the VL100, a complete multi-effects audio DSP from Coolaudio.

**MSRP – $45,95**

**MIKROE-4560**

**Volume 2 click**

The NJU7341, a 2-channel I2C configurable electronic volume IC with external mute control.

**MSRP – $15,95**

**MIKROE-4603**

**MIXED SIGNAL**
PIXI™ Click
Features proprietary PIXI™ technology. Configurable 20-channel mixed-signal data converter.
MSRP = $19.00
AW1000-0116

Multimeter Click
Has different amplifiers, NE555 timer, BCD decoder, frequency to voltage converter, and 8-channel ADC.
MSRP = $13.00
AW1000-0113

LEM Click
Measures AC and DC current (up to 200 kHz). With LTS 6-NP current transducer.
MSRP = $19.00
AW1000-0132

PAC1934 Click
Carries PAC1934 four channel DC power/energy monitor from Microchip.
MSRP = $17.00
AW1000-0175

PAC1921 Click
The PAC1921, a high side power/current monitor from Microchip.
MSRP = $12.00
AW1000-0127

Hz to V Click
The TC53040, a voltage-to-frequency and frequency-to-voltage converter from Analog Devices.
MSRP = $13.00
AW1000-0126

ADC 6 Click
With the AD6712-N, an 8 channel, low noise, low power, 16bit sigma-delta ADC.
MSRP = $27.00
AW1000-0120

ADC 7 Click
The LTC2500-32 is a 32-bit oversampling ADC with a configurable digital filter from Analog Devices.
MSRP = $27.00
AW1000-0119

DIGI POT 3 Click
The AD5321, a 1024 position (10bit) digital potentiometer with a non-volatile memory (EEMEM).
MSRP = $21.00
AW1000-0129

ADC 7 Click
The LTC2500-32 is a 32-bit oversampling ADC with a configurable digital filter from Analog Devices.
MSRP = $27.00
AW1000-0119

MULTIMETER
https://www.mikrocontroller.net/elektronikklick/multimeter_click
**AC Current Click**
- Measuring alternating currents up to 30A.
- MSRP – $26.00

**ADAC Click**
- It’s an 8-channel 12-bit ADC, DAC and SPI.
- With AD5593R configurable ADC/DAC.
- MSRP – $14.00

**ADC to V 2 Click**
- With Microchip’s MCP320K, a voltage-to-frequency and frequency-to-voltage converter.
- MSRP – $42.00

**V to Hz 2 Click**
- With the VFC32KU, a voltage-to-frequency and frequency-to-voltage converter.
- MSRP – $14.00

**V to Hz Click**
- With the VFC32KU, a voltage-to-frequency and frequency-to-voltage converter.
- MSRP – $42.00

**ADAC Click**
- Carries Microchip’s MCP4276 IC, a 12-bit digital-to-analog converter.
- MSRP – $42.00

**ADC Click**
- Carries Microchip’s MCP4296 IC, a 12-bit digital-to-analog converter.
- MSRP – $14.00

**DAC Click**
- Carries Microchip’s MCP4726 IC, a 12-bit digital-to-analog converter.
- MSRP – $18.00

**DAC 2 Click**
- Carries MCP4728, a single-channel 8-bit resolution (256 wiper steps) digital potentiometer.
- MSRP – $18.00

**DAC 3 Click**
- Carries MCP4162, a single-channel 8-bit resolution (256 wiper steps) digital potentiometer.
- MSRP – $24.00

**DIGI POT Click**
- A digitally controlled dual potentiometer with a wide range of resistors (0-1 Mega Ohm).
- MSRP – $12.00

**DIGI POT 2 Click**
- For measuring voltage in an external electric circuit. Measures direct current from 0 to 24V.
- MSRP – $65.00

**DIGI POT 4 Click**
- For measuring voltage in an external electric circuit. Measures direct current from 0 to 24V.
- MSRP – $18.00

**ADC Click**
- Carries Microchip’s MCP3428 16-bit multichannel analog-to-digital converter.
- MSRP – $22.00

**ADC 2 Click**
- Carries Microchip’s MCP3428 16-bit multichannel analog-to-digital converter.
- MSRP – $19.00

**ADC 3 Click**
- Carries Microchip’s MCP3428 16-bit multichannel analog-to-digital converter.
- MSRP – $19.00

**ADC 4 Click**
- Carries a single-channel 12-bit CMOS analog-to-digital converter.
- MSRP – $16.90

**ADC 5 Click**
- Carries a single-channel 12-bit CMOS analog-to-digital converter.
- MSRP – $16.90

**R Meter Click**
- With circuitry for measuring the value of resistors.
- MSRP – $27.00

**Voltmeter Click**
- For measuring voltage in an external electric circuit. Measures direct current from 0 to 24V.
- MSRP – $24.00

**Ammeter Click**
- With circuitry for measuring electric current (AC and DC) 0.1A~1A measurement range.
- MSRP – $24.00

**C Meter Click**
- With circuitry for measuring the value of capacitors.
- Based on NE-555 timer/square-wave generator.
- MSRP – $18.00

**Comparator Click**
- With circuitry for measuring the value of capacitors.
- Based on NE-555 timer/square-wave generator.
- MSRP – $9.00

**DAC Click**
- Includes a 12-bit Digital-to-Analog Converter (DAC) from Linear Technology.
- MSRP – $18.00

**DAC 2 Click**
- Includes an independent precision voltage comparison with Microchip's MCP4001 form.
- MSRP – $18.00

**DAC 3 Click**
- Includes a 12-bit Digital-to-Analog Converter (DAC) from Linear Technology.
- MSRP – $18.00
DIGI POT 5 Click
A digitally controlled quad potentiometer, with the resistance of 10Ω. MSRP – $16

PWR Meter Click
Uses the MXP9F511A, a very sophisticated monitoring IC from Microchip, with 16-bit processing core. MSRP – $16

PWR Meter 2 Click
Measuring and monitoring voltage up to 24V and current up to 5A. It carries the MXP520D module. MSRP – $35

RMS to DC Click
With the LTC3698, converter IC, which outputs an analog voltage depending on the RMS value of the input signal. MSRP – $17

Current 2 Click
Equipped with an integrated transimpedance amplifying circuit. MSRP – $17

MUX Click
Equipped with the MUX509, a precise analog multiplexing IC. MSRP – $17

MUX 2 Click
The MUX509, a modern D/A analog multiplexing integrated circuit. MSRP – $17

MUX 3 Click
Based around the THX3250 module, a 5-V Bidirectional 2:1, 1-Channel Multiplexer. MSRP – $17

DAC 4 Click
The MCP4728, a quad, 12-bit voltage output Digital-to-Analog Convertor (DAC) with EEPROM. MSRP – $12

DAC 5 Click
It’s an advanced 10-bit, eight-channel digital to analog converter (DAC) with DAC53608. MSRP – $15

L meter click
Features the LM311D, a high-speed voltage comparator. MSRP – $9

AD-SW10 Click
The A07412F, a quad-channel software configurable input/output solution. MSRP – $11

AD-SW10 2 Click
With a 16-bit ADC converter, and 12-bit DAC converter integrated into the A07413F. MSRP – $12

AN To PWM click
Uses OPA365 series op-amps, and the TLV3201 comparators from TI. MSRP – $15

AN to PWM 2 Click
Features the LT3892CS6, a silicon oscillator from Analog Devices. MSRP – $15

MIXED SIGNAL
<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADG738</td>
<td>CMOS analog matrix switch with serially-controlled SPI interface.</td>
<td>MIKROE-4580</td>
<td>$12.00</td>
</tr>
<tr>
<td>AD8115S</td>
<td>High precision, low-power, 16-bit analog-to-digital converter (ADC).</td>
<td>MIKROE-4432</td>
<td>$25.00</td>
</tr>
<tr>
<td>AD9837</td>
<td>Fully integrated direct digital synthesis (DDS) device.</td>
<td>MIKROE-4486</td>
<td>$79.00</td>
</tr>
<tr>
<td>LTC2947</td>
<td>High precision power and energy monitor.</td>
<td>MIKROE-4222</td>
<td>$23.00</td>
</tr>
<tr>
<td>INA3221-Q1</td>
<td>Three-channel, high-side current and bus voltage monitor.</td>
<td>MIKROE-4126</td>
<td>$14.00</td>
</tr>
<tr>
<td>AD9837</td>
<td>Fully integrated direct digital synthesis (DDS) device.</td>
<td>MIKROE-4488</td>
<td>$17.00</td>
</tr>
<tr>
<td>AD7091R</td>
<td>Successive-approximation analog-to-digital converter (ADC).</td>
<td>MIKROE-4166</td>
<td>$45.00</td>
</tr>
<tr>
<td>ADC1204BDWR</td>
<td>Isolated Delta-Sigma Modulator for Current-Shunt Measurement.</td>
<td>MIKROE-4088</td>
<td>$21.00</td>
</tr>
<tr>
<td>ADG728</td>
<td>Low voltage, CMOS 8-channel analog matrix switch.</td>
<td>MIKROE-4468</td>
<td>$18.00</td>
</tr>
<tr>
<td>DAC9175S</td>
<td>Single-channel 1204-position digital rheostat.</td>
<td>MIKROE-4414</td>
<td>$15.00</td>
</tr>
<tr>
<td>DAC0803</td>
<td>Combination of the high-side current sensing device.</td>
<td>MIKROE-4203</td>
<td>$15.00</td>
</tr>
<tr>
<td>DAC104S085</td>
<td>10-bit, micro-power, quad digital-to-analog converter.</td>
<td>MIKROE-4206</td>
<td>$15.00</td>
</tr>
<tr>
<td>EMC1702</td>
<td>High-side current sensing device.</td>
<td>MIKROE-4206</td>
<td>$15.00</td>
</tr>
<tr>
<td>DAC80501</td>
<td>Voltage-output digital-to-analog converter.</td>
<td>MIKROE-4332</td>
<td>$15.00</td>
</tr>
<tr>
<td>DAC80501</td>
<td>Voltage-output digital-to-analog converter.</td>
<td>MIKROE-4488</td>
<td>$17.00</td>
</tr>
<tr>
<td>ISO ADC Click</td>
<td>Features the ADG728, a low voltage, CMOS 8-channel analog matrix switch.</td>
<td>MIKROE-4468</td>
<td>$18.00</td>
</tr>
<tr>
<td>ISO ADC 2 Click</td>
<td>Features the ADG738, a CMOS analog matrix switch with serially-controlled SPI interface.</td>
<td>MIKROE-4580</td>
<td>$12.00</td>
</tr>
<tr>
<td>ISO ADC 3 Click</td>
<td>Features the ADG738, a CMOS analog matrix switch with serially-controlled SPI interface.</td>
<td>MIKROE-4580</td>
<td>$12.00</td>
</tr>
<tr>
<td>ADC 8 Click</td>
<td>Based on MCP3564, a 24-bit Delta-Sigma Analog-to-Digital Converter.</td>
<td>MIKROE-4432</td>
<td>$25.00</td>
</tr>
<tr>
<td>ADC 9 Click</td>
<td>With the MAX4208 – an ultra-low offset/ drift, precision instrument amplifier.</td>
<td>MIKROE-4414</td>
<td>$15.00</td>
</tr>
<tr>
<td>Wheatstone Click</td>
<td>Uses the AD7150, a low-voltage, CMOS 8-channel analog matrix switch.</td>
<td>MIKROE-4088</td>
<td>$21.00</td>
</tr>
<tr>
<td>DAC 6 Click</td>
<td>Uses the AD7150, a 16-bit voltage-output digital-to-analog converter.</td>
<td>MIKROE-4488</td>
<td>$17.00</td>
</tr>
<tr>
<td>DAC 9 Click</td>
<td>Uses the AD7150, a 16-bit voltage-output digital-to-analog converter.</td>
<td>MIKROE-4488</td>
<td>$17.00</td>
</tr>
<tr>
<td>DIGI POT 7 Click</td>
<td>Features the DAC80501, a 16-bit voltage-output digital-to-analog converter.</td>
<td>MIKROE-4332</td>
<td>$15.00</td>
</tr>
<tr>
<td>VCP monitor 2 Click</td>
<td>Uses the LTC2947, a high precision power and energy monitor.</td>
<td>MIKROE-4222</td>
<td>$23.00</td>
</tr>
<tr>
<td>VCP monitor 3 Click</td>
<td>Uses the LTC2947, a high precision power and energy monitor.</td>
<td>MIKROE-4222</td>
<td>$23.00</td>
</tr>
<tr>
<td>Analog MUX 2 Click</td>
<td>Uses the ADG738, a low-voltage, CMOS 8-channel analog matrix switch.</td>
<td>MIKROE-4468</td>
<td>$18.00</td>
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<tr>
<td>Analog MUX 3 Click</td>
<td>Uses the ADG738, a CMOS analog matrix switch with a serially-controlled SPI interface.</td>
<td>MIKROE-4468</td>
<td>$18.00</td>
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</table>

*MSRP represents the Manufacturer’s Suggested Retail Price.*
POWER MANAGEMENT
BATT-MAN Click
This LT1398B, a high-efficiency power manager with boost, buck-boost, and buck boost converters.
MSRP – $12²º
MIKROE-0103

MCP73213 Click
Carries MIC23099 single AA/AAA cell step-down/step-up regulator with battery monitoring.
MSRP – $11²º
MIKROE-0103

MIC23099 Click
Carries MIC23099 single AA/AAA cell step-down/step-up regulator with battery monitoring.
MSRP – $29.00
MIKROE-0103

MIC24045 Click
Carries MIC24045 5A synchronous step-down regulator. Input range 4.5V-19V.
MSRP – $13.00
MIKROE-0103

BATT-MAN Click
This LT1398B, a high-efficiency power manager with boost, buck-boost, and buck boost converters.
MSRP – $12²º
MIKROE-0103

MCP16331 INV Click
Works in an inverting configuration, provides a negative output voltage in respect to the GND.
MSRP – $22.00
MIKROE-0103

Charger 2 Click
The STB080, an 80 mA standalone linear Li-Ion battery charger with thermal regulation.
MSRP – $11²º
MIKROE-0103

Peltier Click
With the SPV1050, an ultralow power energy harvester and battery charger.
MSRP – $19.00
MIKROE-0103

VREG Click
Digitally controlled DC voltage regulator. Based on the well-known LM317 circuit.
MSRP – $12²º
MIKROE-0103

Step Down 2 Click
With the SPV1050, an ultralow power energy harvester and battery charger.
MSRP – $15.00
MIKROE-0103

Step Up Click
The L6986HTR is a step-down monolithic switching regulator able to deliver up to 2 A DC.
MSRP – $13²º
MIKROE-0103

Peltier Click
With the SPV1050, an ultralow power energy harvester and battery charger.
MSRP – $15.00
MIKROE-0103

MCP16331 INV Click
Works in an inverting configuration, provides a negative output voltage in respect to the GND.
MSRP – $22.00
MIKROE-0103
The MP9943, a synchronous step-down converter, from Monolithic Power Systems (MPS).

The MPM3632C, a 18V 3A ultra-low profile DC-to-DC power module by Monolithic Power Systems (MPS).

The LMR36015, a synchronous step-down converter, from Texas Instruments.

The MPQ8632, a synchronous step-down converter, from Monolithic Power (MPS).

The MPM3530, a 55V 3A ultra-low profile DC-to-DC power module by Monolithic Power Systems (MPS).

The MAX1757, a standalone, switch-mode Li+ battery charger, from Maxim Integrated.

The MAX17506, a high efficiency, synchronous step-down DC/DC converter with internal compensation.

The MAX17572, a step down (buck) DC-DC converter from Maxim Integrated.

The LTC3225, a 150mA supercapacitor charger from Analog Devices.

The LTC3582, programmable boost and inverting DC/DC converter with OTP memory.

The TPS65131, a positive and negative output DC/DC Converter, from Texas Instruments.

The MAX17222 - a nanoPower synchronous boost converter with True Shutdown™ technology.

The BQ29200, Voltage Protection with Auto-Cell Balance for 2-Series Cell Li-Ion Batt.

The BQ25887 fully integrated 2-cell Li-ion batt. charger IC ideal for portable apps. with cell balancing.

The MAX17587, Voltage Protection with Auto-Cell Balance for 2-Series Cell Li-Ion Batt.

The BQ25897 fully integrated 2-cell Li-ion batt. charger IC ideal for portable apps. with cell balancing.

The BQ25897, Voltage Protection with Auto-Cell Balance for 2-Series Cell Li-Ion Batt.

The STC3115, a high-precision batt. gas gauge IC with alarm output for handheld app.

The LTC3331, a high-precision batt. gas gauge IC with alarm output for handheld app.

The BUCK 14 Click

Based around the BMR4613001/001 - a P0L regulator from Flex.
Uses the BQ25601, a fast-charging solution for single-cell Li-Ion and Li-polymer battery. MSRP – $12

The TPS2120, a dual-input single-output power multiplexer with an automatic switchover. MSRP – $15

Features the MAX890L, a low-resistance power switch. MSRP – $15

Uses the TPS2115AP-WR IC, auto-switching power multiplexer. MSRP – $11

Equipped with the RT9480, highly integrated and easy to use power solution. MSRP – $19

Features the MAX890L, a low-resistance power switch. MSRP – $15

Uses the MP2632B, a highly integrated 3A Li-ion and Li-polymer battery charger. MSRP – $19

The MCP3202, a Dual Channel 12-Bit A/D Converter with SPI Serial Interface. MSRP – $15

The TPS61391, a 700-kHz pulse-width modulating (PWM) Step-Up converter. MSRP – $15

It’s a single lithium-ion (Li+) cell battery charger based on the RT9532GQW. MSRP – $19

The MCP73123, a Lithium Iron Phosphate (LiFePO4) battery management controller. MSRP – $17

The MAX1501, a linear battery charger with thermal regulation for portable applications. MSRP – $9

The LTC3110, a bi-directional buck-boost DC/DC regulator/charger combination. MSRP – $29

The STUSB4700, an independent USB power delivery controller. MSRP – $25

The PIC16F15313, a 8-bit MCU that makes a flexible, alternative to the wireless charging solutions. MSRP – $33

The TPS259631, a highly integrated circuit protection and power management solution. MSRP – $21

The MIC7401, a highly-integrated power-management IC with five synchronous buck regulators. MSRP – $69

The STUSB4700, an independent USB power delivery controller. MSRP – $25

The TPS295631, a highly integrated circuit protection and power management solution. MSRP – $32

The MAX890L, a low-resistance power switch. MSRP – $15

The MAX890L, a low-resistance power switch. MSRP – $15
CLOCK & TIMING
**RTC 4 Click**
Carries DS2417, a real-time clock/calendar with a 1-Wire MicroLAN interface.

MSRP – $21.00

**RTC 5 Click**
Carries Microchip’s MCP79410 real-time clock/calendar.

MSRP – $22.00

**PLL Click**
The ICS501, a LOCO™ PLL clock multiplier, from Integrated Device Technology.

MSRP – $17.00

**RTC 6 Click**
Carries MCP79410 real-time clock/calendar IC. 64 bytes of battery-backed SRAM.

MSRP – $21.00

**TIMER Click**
With DS1302 total elapsed time recorder from Maxim Integrated. ETC used with the ALARM pin.

MSRP – $12.00

**PULSE Click**
A pulse generator with precise frequency control. Features NE555 precision timer.

MSRP – $22.00

**RTC 8 Click**
The RV-3208-C7, an extreme low power RTC module from Micro Crystal Switzerland.

MSRP – $17.00

**RTC 2 Click**
Carries DS1302, a real-time clock with an integrated trickle charge circuit for automatic switchover.

MSRP – $22.00

**RTC 3 Click**
Carries DS1307, a real-time clock with an integrated trickle charge circuit for automatic switchover.

MSRP – $22.00
**CLOCK & TIMING**

**RTC Click**
- Features the PCF8583 serial real-time clock (RTC).
- MSRP – $21.00
- MIKROE-947

**Watchdog Click**
- Features the TPS3430, a standalone watchdog timer.
- MSRP – $7.00
- MIKROE-4413

**One Shot Click**
- The LT6983-2, a monostable multivibrator known as a "one-shot" pulse generator.
- MSRP – $11.00
- MIKROE-4300

**RTC Gen Click**
- Features the LTC6904 IC, 1kHz to 68MHz Serial Port Programmable Oscillator.
- MSRP – $17.00
- MIKROE-4171

**RTC 7 Click**
- The MAX33143, a low-current RTC with I2C interface and power management.
- MSRP – $12.00
- MIKROE-4416

**RTC 10 Click**
- The DS3231M, a low-cost, extremely accurate, I2C real-time clock (RTC).
- MSRP – $11.00
- MIKROE-4288

**RTC 11 Click**
- Uses the LTC6993-2, a monostable multivibrator known as a “one-shot” pulse generator.
- MSRP – $12.00
- MIKROE-4300

**RTC 10 Click**
- Features the DS3231A, an I2C configurable clock generator.
- MSRP – $11.00
- MIKROE-4288

**RTC 11 Click**
- The MAX31341B, a low-current RTC with I2C interface and power management.
- MSRP – $15.00
- MIKROE-4413

**RTC 12 Click**
- The DS3231M, a low-cost, extremely accurate, I2C real-time clock (RTC).
- MSRP – $12.00
- MIKROE-4288

**RTC 10 Click**
- Features the MAX33143, a low-current RTC with I2C interface and power management.
- MSRP – $12.00
- MIKROE-4416

**RTC 11 Click**
- Uses the LTC6993-2, a monostable multivibrator known as a “one-shot” pulse generator.
- MSRP – $12.00
- MIKROE-4300

**RTC 12 Click**
- Features the DS3231A, an I2C configurable clock generator.
- MSRP – $11.00
- MIKROE-4288

**RTC 10 Click**
- The DS3231M, a low-cost, extremely accurate, I2C real-time clock (RTC).
- MSRP – $11.00
- MIKROE-4288

**RTC 11 Click**
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- MIKROE-4288

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- MSRP – $12.00
- MIKROE-4300

**RTC 12 Click**
- Features the DS3231A, an I2C configurable clock generator.
- MSRP – $11.00
- MIKROE-4288
This board was developed in partnership with Microchip. The first big silicon vendor who accepted the mikroBUS™ standard.
We are most fortunate to have our in-house production, procurement, and distribution - all of this enables us to push forward.

Every day we introduce a new Click board™, but at the same time, we produce at least 40-50 different Click boards™ to refill our warehouse or our distributor’s warehouse. It is a most dynamic process: work is being constantly done inside the company, only to be completed at the end of the day when a courier comes in, picks up the boxes, and ships them.
Most people do not understand how huge a trillion is.

Let us give you a hint: a million seconds is equal to 12 days; billion seconds is 31 years; and trillion seconds is 31688 years.

So if we spent a mere second on every combination of Click boards™ on a development board with five mikroBUS™ sockets, it would take well over 261615 years to test all of the combinations.

We are sure everyone will be able to find a great combination of Click boards™ for his or her new project. But just imagine the extra time that engineers world wide have thanks to this fast prototyping.

You can now test not one, but many project possibilities in virtually no time.

| mikroBUS™ - the add-on board socket standard that offers maximum expandability with the smallest number of pins. All the major vendors have accepted the mikroBUS™ standard and added it to their development boards. |
### Growing with our partners

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Clicking on all platforms

Use Click boards™ with your favorite development platform. A range of Shields bring Click connectivity to:

- Arduino
- BeagleBone Black
- Raspberry Pi
- Freedom
- Feather
- Discovery and more...

Scan QR Code to see them all.
Even though it was printed recently, the booklet you are holding is probably already outdated. That’s because we release new Click boards™ daily.

To learn more about Click boards™, visit: [www.mikroe.com/click-boards](http://www.mikroe.com/click-boards) and for the most current list of Click boards™, visit: [www.mikroe.com/click](http://www.mikroe.com/click)