A new idea is just a click away


Pick from hundrededs of Click boards™ - presented here in 1:1 scale - plug one into the mikroBUS™ socket, and it’s ready to work right away.
Click boards™

Ever-growing range of standardized add-on boards

WiFi, LoRa, BLE, GSM, GPS, OLED, speech recognition, environmental sensors, movement sensors, biosensors, LEDs, ADCs, relays - you name it, we got it. There are hundreds of Click boards available.
3G Click (USA)

- UG95 3G UMTS/HSPA module. With SIM card slot, Audio/Mic jack, micro USB port.
- MSRP – $89  

3G Click (EU/AUS)

- UG95 3G UMTS/HSPA module. With SIM card slot, Audio/Mic jack, micro USB port.
- MSRP – $89  

3G SARA Click

- With UMTS/HSPA cellular modem – the u-blox U201, from the SARA series.
- MSRP – $99  

4G LTE-E Click

- It features the LARA-R211 multimode cellular module from u-blox.
- MSRP – $115  

4G LTE-NA Click

- It features the LARA-R204 multimode cellular module from u-blox.
- MSRP – $115  
**6LoWPAN C Click**

- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- TI's CC2520, 2.4GHz ZigBee®/IEEE 802.15.4 RF transceiver.
- MSRP – $26.00
  - MIKROE-2219

**6LoWPAN T Click**

- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- TI's CC2520, 2.4GHz ZigBee®/IEEE 802.15.4 RF transceiver.
- MSRP – $26.00
  - MIKROE-2218

**BEE Click**

- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- Microchip's MRF24J40MA 2.4 GHz IEEE 802.15.4 radio transceiver module.
- MSRP – $29.00
  - MIKROE-987

**BLE 2 Click**

- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- With RN4020 Bluetooth 4.1 module. Can be set up both as a client or a server.
- MSRP – $30.00
  - MIKROE-1715

**BLE 3 Click**

- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- It features NiNA-B1 Bluetooth 4.2 module from u-blox.
- MSRP – $39.00
  - MIKROE-2471
**BLE P Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

With nRF8001 Bluetooth 4.0 peripheral device. Open source Android app available.

**Bluetooth Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

It features the RN-41 low power, class 1 Bluetooth radio module.

**BT Audio Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

With RN52 Bluetooth audio module and onboard 3.5mm jacks for a mic and a speaker.

**ccRF Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

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

**ccRF 2 Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

With CC1120, high performance radio transceiver for ISRM and SRD bands.
### ccRF 3 Click
- **Power Supply**: 5V
- **VGA**: 3.3V
- **I/O Interface**: SPI, I²C
- **Communication**: UART, GPIO
- **Description**: Carries the CC1120 high-performance RF transceiver for narrow-band systems from TI.
- **MSRP**: $36.00
- **Part Number**: MIKROE-2389

### EnOcean Click
- **Power Supply**: 5V
- **VGA**: 3.3V
- **I/O Interface**: SPI, I²C
- **Communication**: UART, GPIO
- **Description**: With TCM 310 transceiver - bidirectional gateway for EnOcean’s 868 MHz radio systems.
- **MSRP**: $39.00
- **Part Number**: MIKROE-1908

### EnOcean 2 Click
- **Power Supply**: 5V
- **VGA**: 3.3V
- **I/O Interface**: SPI, I²C
- **Communication**: UART, GPIO
- **Description**: With TCM 515Z transceiver, based on the 2.4 GHz IEEE 802.15.4 radio standard.
- **MSRP**: $39.00
- **Part Number**: MIKROE-2521

### GNSS Click
- **Power Supply**: 5V
- **VGA**: 3.3V
- **I/O Interface**: SPI, I²C
- **Communication**: UART, GPIO
- **Description**: Quectel’s L86 GNSS module with a patch antenna and an external antenna connector. GPS + GLONASS.
- **MSRP**: $46.00
- **Part Number**: MIKROE-1850

### GNSS 2 Click
- **Power Supply**: 5V
- **VGA**: 3.3V
- **I/O Interface**: SPI, I²C
- **Communication**: UART, GPIO
- **Description**: Quectel’s L76 module and SMA antenna module.
- **MSRP**: $39.00
- **Part Number**: MIKROE-1887
GNSS 3 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries SIM33ELAGNSS module with an integrated antenna and an external antenna connector.
MSRP – $39
MIKROE-1895

GNSS 4 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It features SAM-M8Q patch antenna module from u-blox.
MSRP – $44
MIKROE-2045

GNSS 5 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It features NEO-M8N GNSS receiver module from u-blox.
MSRP – $41
MIKROE-2670

GPS Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It carries LEA-6S high-performance position engine from u-blox.
MSRP – $49
MIKROE-1032

GPS 3 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With Quectel’s L80, high-sensitivity GPS module with a patch antenna.
MSRP – $44
MIKROE-1714
<table>
<thead>
<tr>
<th>Device</th>
<th>MSRP</th>
<th>SIM Card Slot</th>
<th>GPRS Data Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSM-GPS Click</td>
<td>$85.00</td>
<td>Yes</td>
<td>Up to 85.6 kbps</td>
</tr>
<tr>
<td>MIKROE-2382</td>
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<td></td>
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<tr>
<td>GSM Click</td>
<td>$49.00</td>
<td>Yes</td>
<td>Up to 85.6 kbps</td>
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<tr>
<td>MIKROE-1298</td>
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<td></td>
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<tr>
<td>GSM 2 Click</td>
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<td>Yes</td>
<td>Up to 85.6 kbps</td>
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<tr>
<td>MIKROE-1375</td>
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</tr>
<tr>
<td>GSM 3 Click</td>
<td>$57.00</td>
<td>Yes</td>
<td>Up to 85.6 kbps</td>
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<tr>
<td>MIKROE-1720</td>
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<tr>
<td>GSM/GNSS Click</td>
<td>$79.00</td>
<td>Yes</td>
<td>Up to 85.6 kbps</td>
</tr>
<tr>
<td>MIKROE-2439</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GSM/GNSS 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With SIM868 quad-band GSM/GPRS module. GPS/GNSS location tracking with GSM.
MSRP – $69.00
MIKROE-2440

IQRF Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With DCTR-76DA RF transceiver, operating in the 868/916 MHz frequency.
MSRP – $43.00
MIKROE-2586

IQRF 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With DCTR-72DAT RF transceiver, operating in the 868/916 MHz frequency.
MSRP – $49.00
MIKROE-2587

IR Beacon Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Functions as a beacon device with nine VSMB-2948SL high speed infrared emitting diodes.
MSRP – $21.00
MIKROE-1939

IR Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Features TSOP38338 IR 38 kHz receiver module as well as QEE113 IR emitting diode.
MSRP – $9.00
MIKROE-1377
IrDA2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With TFDU4101 infrared transceiver module and MCP2120 infrared encoder/decoder.
MSRP – $25.90
MIKROE-1195

LoRa RF Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With RN2483 LoRa Sub-GHz, 433/868 MHz European R&TTE Directive Assessed Radio Modem.
MSRP – $54.00
MIKROE-1997

LoRa RF 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With RN2903 915 MHz Radio Modem compliant with regulations for use in the USA, CA, AU, NZ.
MSRP – $54.00
MIKROE-2225

LoRa 3 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A LoRa technology-based SRD transceiver, operates at a sub-gigahertz frequency of 868MHz.
MSRP – $52.00
MIKROE-2933

LoRa 4 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A LoRa RF technology based SRD transceiver, operates at a sub-gigahertz frequency of 868MHz.
MSRP – $52.00
MIKROE-2934
WIRELESS CONNECTIVITY

NFC Tag Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With M24SR64 NFC/RFID tag IC with a dual interface and 8KB of high-reliability EEPROM built-in.

MSRP – $12
MIKROE-1726

NFC Tag 2 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Carries NT3H1101 NTAG I2C energy harvesting NFC Forum Type 2 Tag from NXP.

MSRP – $12
MIKROE-2462

nRF C Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With nRF24L01P 2.4 GHz transceiver. Air data rates of 250 Kbps, 1 Mbps and 2 Mbps.

MSRP – $19
MIKROE-1304

nRF S Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With nRF24L01P 2.4 GHz transceiver module. Air data rates of 250 Kbps, 1 Mbps and 2 Mbps.

MSRP – $19
MIKROE-1305

nRF T Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

MSRP – $19
MIKROE-1305
RFid Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With CR95HF 13.56 MHz contactless RFid transceiver, and trace antenna.
MSRP – $2900
MIKROE-1434

NFC Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With near field communications controller PN7120 IC from NXP.
MSRP – $3400
MIKROE-2395

RN4678 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It carries RN4678 Bluetooth® 4.2 dual mode module from Microchip.
MSRP – $2900
MIKROE-2395

RN4870 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It carries RN4870 Bluetooth® 4.2 low energy module from Microchip.
MSRP – $3300
MIKROE-2543

RN4871 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It carries RN4871 Bluetooth® 4.2 low energy module from Microchip.
MSRP – $3300
MIKROE-2544
### Wireless Connectivity

<table>
<thead>
<tr>
<th>Device</th>
<th>5V</th>
<th>3.3V</th>
<th>SPI</th>
<th>I2C</th>
<th>UART</th>
<th>GPIO</th>
<th>PWM</th>
<th>AN</th>
</tr>
</thead>
<tbody>
<tr>
<td>tRF Click</td>
<td>5V</td>
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<tr>
<td>WiFi 2 Click</td>
<td>5V</td>
<td>3.3V</td>
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<tr>
<td>WiFi 3 Click</td>
<td>5V</td>
<td>3.3V</td>
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<tr>
<td>WiFi 4 Click</td>
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<td>3.3V</td>
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</tr>
<tr>
<td>WiFi 5 Click</td>
<td>5V</td>
<td>3.3V</td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

**tRF Click**

With Telit’s LE70-868 — a 868 MHz transceiver module with embedded stack.

MSRP – $59.00
MIKROE-1535

**WiFi 2 Click**

With HLK-M30 module. Can be set up with either a static or dynamic IP address.

MSRP – $29.00
MIKROE-1768

**WiFi 3 Click**

With ESP8266 module. TCP/IP stack. Supports Wi-Fi Direct (p2p). 6 GPIO pins.

MSRP – $27.00
MIKROE-1769

**WiFi 4 Click**

With SPWF01SA standalone WiFi module. Built-in 2.45 GHz ISM band antenna.

MSRP – $49.00
MIKROE-1913

**WiFi 5 Click**

With Gainspan’s GS1500M 802.11b/g/n Low Power Wi-Fi module with a PCB trace antenna.

MSRP – $29.00
MIKROE-2274
WiFi 6 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With WF121-A self-contained WiFi module.
2.4GHz band IEEE 802.11 b/g/n radio.
MSRP – $69.00
MIKROE-2043

WiFi 7 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With ATWINC1510-MR210PB IEEE 802.11 b/g/n module, 20MHz solution.
MSRP – $29.00
MIKROE-2046

WiFi ESP Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With ESP-WROOM-02 module that integrates ESP8266EX. In AP WiFi and WiFi client mode.
MSRP – $15.00
MIKROE-2542

WiFi PLUS Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With MRF24WB-OMA 2.4GHz, IEEE std. 802.11 module and MCW1001 controller.
MSRP – $45.00
MIKROE-1135

WiFly Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With RN-131 embedded wireless LAN module. Qualified 2.4-GHz IEEE 802.11 b/g transceiver.
MSRP – $69.00
MIKROE-1937
WIRELESS CONNECTIVITY

AnyNet 2G Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

WiFi module with integrated IPv4 TCP/IP stack and built-in network protocols.
MSRP – $69.00
MIKROE-2747

AnyNet 3G-EA Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

A secure connection with the AWS over the air (OTA), by utilizing the Quectel UG95 3G module.
MSRP – $89.00
MIKROE-2975

CC3100 Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Carries low power, high security Wi-Fi CC3100 module. Support for 802.11n.
MSRP – $49.00
MIKROE-2936

OOK RX Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

A wireless receiver that operates at the frequency of 433MHz (sub-GHz).
MSRP – $19.00
MIKROE-2902

OOK TX Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

A wireless transmitter that operates at the frequency of 433MHz (sub-GHz).
MSRP – $19.00
MIKROE-2903
A standalone WiFi module, with the state-of-the-art NINA-W132 module from u-blox.

**WiFi NINA Click**

5V 3.3V SPI I2C

**MiWi Click**

5V 3.3V SPI I2C

A subgigahertz radio transceiver which offers a reliable FSK or OOK communication solution.

**MiWi 2 Click**

5V 3.3V SPI I2C

A subgigahertz radio transceiver which offers a reliable FSK or OOK communication solution.

**M-BUS RF Click**

5V 3.3V SPI I2C

With ME70-169 RF wireless module. Unlicensed ISM frequency band 169.400-169.475 MHz.

**SPIRIT Click**

5V 3.3V SPI I2C

With SP1ML 868MHz ultra low-power RF module. Memory: 16 kB RAM and 128 kB Flash.
XBEE Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Xbee® and Zigbee-compliant XB-24CZ7PIS-004 module with a PCB antenna.

MSRP – $59.00
MIKROE-1599

NANO GPS Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With Nano Hornet, world’s smallest GPS module with an integrated antenna.

MSRP – $45.00
MIKROE-1912

GPS 4 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

GPS 4 click carries the L70 compact GPS module from Quectel, with external antenna.

MSRP – $34.00
MIKROE-2704

GSM 4 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Compact quad-band GSM solution, featuring the quad-band SARA-G350 module.

MSRP – $74.00
MIKROE-2388
GeoMagnetic Click

5V  3.3V  SPI  I2C
UART: GPIO  PWM  AN

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

MSRP – $1500
MIKROE-2935

IR Grid Click

5V  3.3V  SPI  I2C
UART: GPIO  PWM  AN

Equipped with the MLX90621BAD, a 16x4 IR array sensor, from Melexis.

MSRP – $6900
MIKROE-2622

Moisture Click

5V  3.3V  SPI  I2C
UART: GPIO  PWM  AN

FDC2112 IC, a very precise 12bit capacitance to digital converter, from Texas Instruments.

MSRP – $1900
MIKROE-3084

Opto Encoder Click

5V  3.3V  SPI  I2C
UART: GPIO  PWM  AN

Uses the TCUT1600X01, a tall dome dual channel transmissive optical sensor from Vishay.

MSRP – $900
MIKROE-2549

RTD Click

5V  3.3V  SPI  I2C
UART: GPIO  PWM  AN

It is based on MAX31865 resistance to digital converter optimized for RTDs.

MSRP – $1900
MIKROE-2815
**10DOF Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

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

MSRP – $49.00
MIKROE-2073

**3D Hall Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

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

MSRP – $25.00
MIKROE-1987

**3D Motion Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

MM7150 9-axis sensor fusion motion module and SSC7150 motion coprocessor.

MSRP – $59.00
MIKROE-1877

**6DOF IMU Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

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

MSRP – $49.00
MIKROE-1298

**6DOF IMU 2 Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

With BMI160 low power IMU. For precise acceleration and gyroscopic measurement.

MSRP – $24.00
MIKROE-2337
9DOF Click
5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN
LSM9DS1 inertial measurement module - 3D accelerometer, gyroscope and magnetometer.
MSRP – $2400
MIKROE-1941

Accel Click
5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN
With ADXL345 3-axis accelerometer. 13-bit measurement, embedded FIFO technologies.
MSRP – $1900
MIKROE-1194

Accel 2 Click
5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN
LIS3DSH IC 3-axis accelerometer. Embedded FIFO buffer and 2 programmable state machines.
MSRP – $1900
MIKROE-1905

Accel 3 Click
5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN
H3LIS331DL 3-axis linear accelerometer. Dynamically selectable scales ±100g/±200g/±400g.
MSRP – $2100
MIKROE-2102

Air quality Click
5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN
MQ-135 sensor for detecting gases - ammonia, nitrogen oxides, benzene, smoke, CO2.
MSRP – $1650
MIKROE-1630
Air quality 2 Click

MSRP – $79.00
MIKROE-2529

iAQ-Core that measures VOC levels and provides CO2 equivalent and TVOC equivalent predictions.

Air quality 3 Click

MSRP – $29.00
MIKROE-2553

Equipped with the CCS811, an ultra-low power digital gas sensor for monitoring the indoor air quality (IAQ).

Air quality 4 Click

MSRP – $32.00
MIKROE-2886

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

Air quality 5 Click

MSRP – $45.00
MIKROE-3056

MiCS-6814, a compact triple MOS sensor from SGX Sensortech, with three fully independent sensors.

Hydrogen Click

MSRP – $15.00
MIKROE-1629

It carries MQ-8 sensor for hydrogen (H2). Sensor’s detection range 100–10000ppm of H2.
With AK7451, a magnetic rotational angle sensor with 12-bit angle resolution.  

**Angle 3 Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  

MSRP – $18.00  
MIKROE-2755


**BAROMETER Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  

MSRP – $15.00  
MIKROE-1817

US2882 bipolar Hall-effect switch and a 74LVC1T45 single bit, dual supply transceiver.  

**Bi Hall Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  

MSRP – $12.00  
MIKROE-1846


**CO Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  

MSRP – $16.00  
MIKROE-1626

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

**Color Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  

MSRP – $15.00  
MIKROE-1438
Color 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
ISL29125 RGB color light sensor. 16-bit resolution data, measuring range 5.7 mlux–10,000 lux.
MSRP – $1600
MIKROE-1988

Color 3 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With TCS3771 color sensor and a narrow beam Infrared LED.
MSRP – $1700
MIKROE-2103

Compass Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It features LSM303DLHC ultra compact high performance e-compass module.
MSRP – $2500
MIKROE-2264

Compass 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With AK8963 3-axis electronic compass based on the Hall effect. 14-/16-bit selectable resolution.
MSRP – $2500
MIKROE-2264

Current Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With INA196 current shunt monitor, MCP3201 12-bit ADC, MAX6106 voltage reference.
MSRP – $2400
MIKROE-1396
DHT22 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With DHT22 temp. and humidity measurement sensor. Hum. 0–100%, temp. -40 to +80° C.

MSRP – $24\textsuperscript{00}
MIKROE-1798

Diff pressure Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

MPXV5010DP pressure sensor. Designed for comparing 2 pressure measurements.

MSRP – $59\textsuperscript{00}
MIKROE-2387

Earthquake Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

It carries D7S, the world’s smallest high-precision seismic sensor from Omron.

MSRP – $69\textsuperscript{00}
MIKROE-2561

ECG Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

It measures the electrical activity of a beating heart through electrodes taped to the skin.

MSRP – $39\textsuperscript{00}
MIKROE-2455

ECG 2 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Tracks the patterns of your beating heart. It carries ADS1194 16-bit delta-sigma ADC.

MSRP – $49\textsuperscript{00}
MIKROE-2507
EMG Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- Measures the electrical activity produced by the skeletal muscles.
- MSRP - $29.00
  MIKROE-2621

Environment Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- Measures temperature, relative humidity, pressure and Volatile Organic compounds gases.
- MSRP - $34.00
  MIKROE-2467

Fever Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- Measures body temperature with MAX30205 sensor. Accuracy 0.1°C (37°C to 39°C).
- MSRP - $11.00
  MIKROE-2554

FLAME Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- Used for fire detection. Carries PT334-6B silicon phototransistor sensitive only to infrared light.
- MSRP - $12.00
  MIKROE-1820

Force Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- With Interlink Electronics’ Force Sensing Resistors. Force sensitivity range 0.2N-20N.
- MSRP - $25.00
  MIKROE-2085
With Maxim’s MAX30100 integrated pulse oximetry and heart-rate sensor.

**Heart rate Click**

**MSRP – $19.00**

**MIKROE-2000**

**Heart rate Click**

**MSRP – $19.00**

**MIKROE-2000**

**Hall current Click**

**MSRP – $34.00**

**MIKROE-1578**

High precision current sensor with TLI4970-D050T4, a magnetic current sensor.

**GYRO Click**

**MSRP – $25.00**

**MIKROE-1379**

L3GD20 3-axis digital gyroscope module - can measure angular rate and ambient temperature.

**Grid-EYE Click**

**MSRP – $79.00**

**MIKROE-2539**

8x8 thermal array sensor-detector that carries AMG8853 infrared array sensor.
Heart rate 3 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

SFH7050 pulse oximetry and heart rate monitoring module, and AFE4404 IC for bio-sensing.

MSRP – $39

MIKROE-2036

Heart rate 4 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Carrie the MAX30101 high-sensitivity pulse oximeter and heart-rate sensor.

MSRP – $21

MIKROE-2510

Heart Rate 5 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Uses the top-of-the-class integrated BIOFY® SFH 7072 sensor from OSRAM.

MSRP – $32

MIKROE-3012

Heart Rate 7 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

The VEMD8080 photosensor. A high-speed PD element, with sensitivity in the visible light spectrum.

MSRP – $23

MIKROE-2998

Illuminance Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN


MSRP – $16

MIKROE-1688
IR distance Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With GP2Y0A60SZDF distance measuring sensor. Measuring range 10-150 cm.

MSRP – $25.00
MIKROE-1991

IR eclipse Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With EE-SX198 photo interrupter sensor - detects anything that obstructs its beam.

MSRP – $15.00
MIKROE-1711

IR reflect Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Carries GP2S700HCP reflective photo interrupter and an onboard potentiometer.

MSRP – $12.00
MIKROE-1882

IR Sense Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With AK9750 quantum-type IR sensor. Detects the temperature of objects and people in motion.

MSRP – $27.00
MIKROE-2677

IrThermo Click 3.3V

5V 3.3V SPI I2C
UART GPIO PWM AN

With MLX90614ESF-BAA IR thermometer module, factory calibrated in wide temperature range.

MSRP – $29.00
MIKROE-1361
IrThermo Click 5V
5V 3.3V SPI I2C
UART GPIO PWM AN
With MLX90614ESF-AAA IR thermometer module, factory calibrated in wide temperature range.
MSRP – $2900
Mikroe-1362

IrThermo 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It is a non-contact temperature measurement solution, with an infrared thermopile sensor.
MSRP – $2000
Mikroe-1888

LDC1000 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With inductance-to-digital converter IC and a detachable sensor. For short range inductive sensing.
MSRP – $3500
Mikroe-1583

Light Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Used to measure ambient light intensity, with PD15-22CTR8 PIN photodiode.
MSRP – $1800
Mikroe-1424

LightHz Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With TSL230BR converter for conversion of light intensity to frequency with no external components.
MSRP – $1790
Mikroe-990
LightRanger Click
5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN
It’s a proximity sensor carrying VL6180X IC. Also works as an ambient light sensor.
MSRP – $2400
MIKROE-1897

LightRanger 2 Click
5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN
With VL53L0X IC, the world’s smallest Time-of-Flight ranging and gesture detector sensor.
MSRP – $2400
MIKROE-2509

LIN HALL Click
5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN
Carries MLX90242 linear Hall sensor IC. Measures magnet’s strength and distance.
MSRP – $1700
MIKROE-1648

Line Follower Click
5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN
With five QRE1113 miniature reflective object sensors. Used for line following robots and cars.
MSRP – $1500
MIKROE-1999

LPG Click
5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN
With MQ-5 sensor for detecting liquefied petroleum gas leakage. Detection range 200-10000 ppm.
MSRP – $1500
MIKROE-1587

SENSORS
**SENSORS**

**LPS22HB Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Used as a digital barometer. It carries the LPS22HB MEMS nano pressure sensor.

**MSRP – $15^00**
MIKROE-2685

**LSM303AGR Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Measures acceleration and magnetic field characteristics. Carries LSM303AGR module.

**MSRP – $18^00**
MIKROE-2684

**LSM6DSL Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Measures linear and angular velocity with six degrees of freedom. Carries LSM6DSL module.

**MSRP – $15^00**
MIKROE-2731

**MAGNETO Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Carries AS5048A contactless magnetic angle position sensor that relies on the Hall Effect.

**MSRP – $36^00**
MIKROE-1888

**MAGNETO 2 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Enables the design of non-contacting rotary position sensors with MLX90316 sensor IC.

**MSRP – $29^00**
MIKROE-1938
Manometer Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
Carries a piezoresistive silicon pressure sensor with extremely high accuracy (±0.25% FSS BFSL).
MSRP – $79<sup>00</sup>
MIKROE-2237

Manometer 2 Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With MS5525D-SO-SB001GS digital pressure sensor. 24-bit digital pressure and temp. value.
MSRP – $39<sup>00</sup>
MIKROE-2550

Methane Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With MQ-4 sensor for methane (CH4). Detection range 200-10000ppm of CH4.
MSRP – $15<sup>00</sup>
MIKROE-1628

MOTION Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
It’s a motion detector sensitive only to live bodies with PIR500B, a pyroelectric sensor.
MSRP – $13<sup>00</sup>
MIKROE-1589

MPU IMU Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
Carries MPU-6000 integrated 6-axis motion tracking device and a DMP (Digital Motion Processor).
MSRP – $39<sup>00</sup>
MIKROE-1577
**Spectral Click**

- **5V/3.3V/SPI/I2C**
- Uses the AS7261, an XYZ chromatic white color sensor + NIR with electronic shutter and smart interface.
- MSRP – $2100

**Spectral 2 Click**

- **5V/3.3V/SPI/I2C**
- Uses the AS7262, 6 channel visible spectral_ID device with electronic shutter and smart Interface.
- MSRP – $2600

**Spectral 3 Click**

- **5V/3.3V/SPI/I2C**
- Uses the AS7263, a 6 channel NIR Spectral_ID device with electronic shutter and smart Interface.
- MSRP – $2600

**IR Sense 2 Click**

- **5V/3.3V/SPI/I2C**
- Uses the AK9752, an ultra-small infrared sensor IC, with an I2C interface, from AKM.
- MSRP – $2100

**Barcode Click**

- **5V/3.3V/SPI/I2C**
- The LV3296, a compact integrated barcode scanner from Rakinda company.
- MSRP – $17900
**MPU 9DOF Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
Carries the MPU-9150 system in package, the world’s first 9-axis motion tracking device.  
MSRP – $4200  
MIKROE-1719

**Ozone 2 Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
With MQ131 sensor for Ozone [O₃]. Detection range 10-1000 ppm of O₃.  
MSRP – $3700  
MIKROE-2767

**Pollution Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
Detects organic gases - formaldehyde, benzene, alcohol, toluene, etc. Detection range 1x50ppm.  
MSRP – $4900  
MIKROE-2516

**Pressure Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
With LPS331AP digital output pressure sensor. For pressure [260-1260 mbar] and temp. [-40°C to 80°C].  
MSRP – $2500  
MIKROE-1422

**Pressure 2 Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
With MS5803, a high resolution MEMS pressure sensor. Range 0-14 bars, resolution up to 0.2 mbars.  
MSRP – $6900  
MIKROE-1880
It’s an RF power measurement device. Frequency span 1 MHz-8 GHz, over 60 dB range.

With DPS310 digital barometric pressure sensor. Range 300-1200 hPa.

With VCNL4010 proximity and ambient light sensor. Range up to 20cm, 16-bit resolution.

With MAX44000, an IC that integrates an ambient light and a proximity sensor. Range 0.03-65.535 lux.

With a standard reed switch. Used in mechanical systems as proximity sensors.
Shake2Wake Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With ADXL362 ultralow power, 3-axis MEMS accelerometer. Includes several activity detection modes.
MSRP – $3900
MIKROE-1942

SHT Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Temperature and humidity sensor SHT3x-DIS. -0 to 100% RH, 40 to 125°C temp. range.
MSRP – $2600
MIKROE-2101

SHT1x Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Digital humidity and temperature sensor SHT11. Not recommended for newer designs.
MSRP – $1300
MIKROE-949

Smoke Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With MAX30105 optical sensor for smoke detection. Sensor’s inherent resolution 0.0625°C.
MSRP – $1900
MIKROE-2560

Stretch Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Measures stretch forces with conductive rubber cord - 40-160 ohms per cm resistance.
MSRP – $3500
MIKROE-2064
Altitude Click

5V 3.3V SPI I2C
UART GPIO PWM AN


MSRP – $14
MIKROE-1489

THERMO Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With MAX31855K thermocouple-to-digital converter and PCC-SMP K-type thermocouple connector.

MSRP – $29
MIKROE-1197

THERMO 2 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With DS1825, a digital thermometer IC with a unique 64-bit address. -10°C to 85°C, ±0.5°C accuracy.

MSRP – $15
MIKROE-1840

Thermo 3 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With TMP102, a digital temp. sensor IC. Accurate within 0.5°C. Range from -25°C to 85°C.

MSRP – $9
MIKROE-1885

THERMO 4 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

It carries digital temperature sensor and thermal watchdog. Range from -55°C to +125°C.

MSRP – $9
MIKROE-2632
THERMO 5 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Measures temperature in default range of 0°C to 127°C and extended range of -64°C to 191°C.

MSRP – $110.00
MIKROE-2571

Thermo 6 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Ambient temp. measurement device, based on the MAX31875 temp. sensor.

MSRP – $90.00
MIKROE-2789

THERMO K Click

5V 3.3V SPI I2C
UART GPIO PWM AN

It carries the MCP9600 IC. It can measure temperatures from -200 °C to +1372 °C.

MSRP – $240.00
MIKROE-2501

Thermostat Click

5V 3.3V SPI I2C
UART GPIO PWM AN

It carries MAX7502 IC that can measure temp. from -25°C to +100°C. Accuracy ±1.5°C.

MSRP – $190.00
MIKROE-2273

Thunder Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Detects the presence and proximity of lightning activity with AS3935 lightning sensor.

MSRP – $350.00
MIKROE-1444

THERMO 5 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Measures temperature in default range of 0°C to 127°C and extended range of -64°C to 191°C.

MSRP – $110.00
MIKROE-2571

Thermo 6 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Ambient temp. measurement device, based on the MAX31875 temp. sensor.

MSRP – $90.00
MIKROE-2789

THERMO K Click

5V 3.3V SPI I2C
UART GPIO PWM AN

It carries the MCP9600 IC. It can measure temperatures from -200 °C to +1372 °C.

MSRP – $240.00
MIKROE-2501

Thermostat Click

5V 3.3V SPI I2C
UART GPIO PWM AN

It carries MAX7502 IC that can measure temp. from -25°C to +100°C. Accuracy ±1.5°C.

MSRP – $190.00
MIKROE-2273

Thunder Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Detects the presence and proximity of lightning activity with AS3935 lightning sensor.

MSRP – $350.00
MIKROE-1444
Tilt Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With RPI-1035, a 4-directional optical tilt sensor - left, right, backward, forward movement.
MSRP – $12.90
MIKROE-1834

TILT-n-SHAKE Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With MMA8451Q IC, a 3-axis digital accelerometer. Can function as a 45° tilt sensor.
MSRP – $19.00
MIKROE-1853

UNI HALL Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With US5881 unipolar Hall-effect switch sensitive to the North Pole magnetic fields.
MSRP – $12.00
MIKROE-1647

UV Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With ML8511 IC that is sensitive to UVA and UVB rays. Outputs either analog or digital signals.
MSRP – $24.00
MIKROE-1677

UV 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries VEML6075 UVA and UVB light sensor. With a photodiode, amplifiers, analog/digital circuits.
MSRP – $19.00
MIKROE-2378
UV 3 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

An advanced ultraviolet (UV) light sensor with VEML6070 UVA light sensor.

MSRP – $900
Mikroe-2736

Vibra sense Click

5V 3.3V SPI I2C
UART GPIO PWM AN

A micro shock vibration sensor with a digital output. For anti-tampering, anti-theft devices.

MSRP – $1800
Mikroe-1927

Water Detect Click

5V 3.3V SPI I2C
UART GPIO PWM AN

For detecting water and other electroconductive liquids. Carries Microchip’s MCP606.

MSRP – $900
Mikroe-2786

Weather Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With BME280 integrated environmental unit. Detects humidity, pressure, and temperature.

MSRP – $2200
Mikroe-1978

Angle Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Hall-effect angle sensing device used to measure the rotational angle of the magnetic field.

MSRP – $1600
Mikroe-2030
**Thermo J Click**

5V | 3.3V | SPI | I2C

UART: GPIO | PWM | AN

It is a temperature measurement Click board™, which uses a thermo-couple type-J probe.

MSRP – $24

Mikroe-2811

**DHT22 2 Click**

5V | 3.3V | SPI | I2C

UART: GPIO | PWM | AN

It is used for measuring the environmental temperature and relative humidity.

MSRP – $22

Mikroe-2819

**IrDA 3 Click**

5V | 3.3V | SPI | I2C

UART: GPIO | PWM | AN

Intelligent IR transceiver device that sends and receives UART commands via the IR interface.

MSRP – $26

Mikroe-2871

**Microwave Click**

5V | 3.3V | SPI | I2C

UART: GPIO | PWM | AN

It detects movement, thanks to the PD-V11 a 24GHz microwave motion sensor.

MSRP – $25

Mikroe-2781

**Proximity 3 Click**

5V | 3.3V | SPI | I2C

UART: GPIO | PWM | AN

Intelligent proximity and light sensing device - high sensitivity long distance PS and ALS.

MSRP – $17

Mikroe-2801
Alcohol Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Detects alcohol in concentrations from 0.04 to 4mg/l with MQ-3 Semiconductor sensor.
MSRP – $15.00
Mikroe-1586

Temp-Log Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A precise ambient temperature measurement device, with 8Kbit (1024 bytes) of EEPROM memory.
MSRP – $15.00
Mikroe-2886

Temp-Log 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A precise ambient temp. measurement device, with the additional non-volatile (EEPROM) memory.
MSRP – $15.00
Mikroe-3004

HTU21D Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries a relative humidity sensor with temperature output. Rel. hum. 0-100%, temp. -40 to +125°C.
MSRP – $21.00
Mikroe-1687

ProxFusion Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A multifunctional capacitive and Hall-effect sensor device. Carries the IQS624, a combined multi-sensor IC from Azoteq.
MSRP – $9.00
Mikroe-2920
Hall Switch Click
5V 3.3V SPI I2C UART: GPIO PWM AN
Uses the AH1389, an ultra-sensitive dual output unipolar Hall Effect switch, from Diodes Incorporated.
MSRP – $19.00
Mikroe-2985

Thermo 7 Click
5V 3.3V SPI I2C UART: GPIO PWM AN
Uses the MCP9800, a high accuracy temperature sensor IC with the 2-Wire interface, from Microchip.
MSRP – $9.00
Mikroe-2979

Proximity 5 Click
5V 3.3V SPI I2C UART: GPIO PWM AN
Features the VCN-L4035X01 J, a fully integrated proximity and ambient light sensor.
MSRP – $15.00
Mikroe-2984

Proximity 6 Click
5V 3.3V SPI I2C UART: GPIO PWM AN
Uses the ADUX1020, a photometric sensor for gesture and proximity detection.
MSRP – $29.00
Mikroe-3048

Hall current 2 Click
5V 3.3V SPI I2C UART: GPIO PWM AN
A Hall effect linear current sensor with over-current fault output for less than 100 V Isolation Applications.
MSRP – $19.00
Mikroe-2987
UV 4 Click
5V, 3.3V, SPI, I2C
UART, GPIO, PWM, AN
Equipped with the Si1133, a UV index and ambient light sensor with I2C interface, from Silicon Labs.
MSRP – $15.00
MIKROE-2989

Temp&Hum Click
5V, 3.3V, SPI, I2C
UART, GPIO, PWM, AN
With HTS221 temp. and relative humidity sensor. Measurement accuracy is ±1°C in 0-60°C range.
MSRP – $16.00
MIKROE-1971

Temp&Hum 2 Click
5V, 3.3V, SPI, I2C
UART, GPIO, PWM, AN
Uses the Si7034, a digital humidity and temperature sensor IC with I2C interface, from Silicon Labs.
MSRP – $16.00
MIKROE-3085

Temp-Hum 3 Click
5V, 3.3V, SPI, I2C
UART, GPIO, PWM, AN
Uses the HDC2010, a Low Power Humidity and Temperature Digital Sensor from Texas Instruments.
MSRP – $13.00
MIKROE-2937

Temp-Hum 4 Click
5V, 3.3V, SPI, I2C
UART, GPIO, PWM, AN
A smart environmental temp. and humidity sensor, uses HDC1010 sensor from Texas Instruments.
MSRP – $13.00
MIKROE-2938
<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Voltage</th>
<th>I/O Interfaces</th>
<th>Features</th>
<th>MSRP</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color 6 Click</td>
<td>5V, 3.3V, SPI, I2C</td>
<td>UART, GPIO, PWM, AN</td>
<td>Features the AS73211, an XYZ true color sensor from AMS.</td>
<td>$32</td>
<td>MIKROE-3061</td>
</tr>
<tr>
<td>Color 7 Click</td>
<td>5V, 3.3V, SPI, I2C</td>
<td>UART, GPIO, PWM, AN</td>
<td>Features the TCS3472 color light to digital converter with IR filter, from AMS.</td>
<td>$16</td>
<td>MIKROE-3062</td>
</tr>
<tr>
<td>Ambient Click</td>
<td>5V, 3.3V, SPI, I2C</td>
<td>UART, GPIO, PWM, AN</td>
<td>With MLX75305 IC, CMOS integrated optical sensor. Converts ambient light intensity into voltage.</td>
<td>$9</td>
<td>MIKROE-1890</td>
</tr>
<tr>
<td>Ambient 2 Click</td>
<td>5V, 3.3V, SPI, I2C</td>
<td>UART, GPIO, PWM, AN</td>
<td>TI’s OPT3001 ambient light sensor. Measures the visible part of the light spectrum.</td>
<td>$14</td>
<td>MIKROE-1903</td>
</tr>
</tbody>
</table>
Accel 6 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

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

MSRP – $1700
MIKROE-3075

Altitude 2 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

Uses the MS5607-02BA03, a barometric pressure sensor IC with the stainless steel cap.

MSRP – $1500
MIKROE-3020

Pressure 4 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

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

MSRP – $1800
MIKROE-3020

Alcohol 2 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

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

MSRP – $5200
MIKROE-3097

NO2 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

The 3SP-NO2-20 gas sensor from SPEC Sensors, which can sense NO2 concentration up to 20ppm.

MSRP – $5200
MIKROE-3098
The MLX90393, a micro-power magnetometer based on the proprietary Triaxis® technology.

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

Uses the P12347-01CT, from Hamamatsu company.

Uses the MLX90632 FIR sensor from Mel-exis as the contactless temperature sensor.
<table>
<thead>
<tr>
<th>Interface</th>
<th>Board Name</th>
<th>MSRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATA6570</td>
<td>Click</td>
<td>$23</td>
</tr>
<tr>
<td>DALI 2</td>
<td>Click</td>
<td>$25</td>
</tr>
<tr>
<td>iButton™</td>
<td>Click</td>
<td>$35</td>
</tr>
<tr>
<td>USB UART</td>
<td>3 Click</td>
<td>$15</td>
</tr>
<tr>
<td>RS232 2</td>
<td>Click</td>
<td>$15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>5V</td>
</tr>
<tr>
<td>3.3V</td>
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<tr>
<td>SPI</td>
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<tr>
<td>I2C</td>
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<td>PWM</td>
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<tr>
<td>AN</td>
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</tbody>
</table>

**ATA6570 Click**

Uses the ATA6570, a standalone high speed CAN transceiver IC from Microchip.

**DALI 2 Click**

It is used for interfacing with the DALI network, and as a compliant with the DALI-2 physical layer requirements.

**iButton™ Click**

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

**USB UART 3 Click**

The CP2102N, a highly integrated USB to UART interface, from Silicon Labs.

**RS232 2 Click**

The MAX3237E, a 3V to 5.5V multichannel RS232, 1 Mbit/s line driver/receiver from Texas Instruments.
**1-Wire I2C Click**

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

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

**MSRP – $22.00**

Mikroe-2750

---

**4-20 mA R Click**

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

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

**MSRP – $26.00**

Mikroe-1387

---

**4-20 mA T Click**

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

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

**MSRP – $26.00**

Mikroe-1296

---

**ATA6563 Click**

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

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

**MSRP – $20.00**

Mikroe-2334

---

**ATA663211 Click**

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

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

**MSRP – $19.00**

Mikroe-2335
<table>
<thead>
<tr>
<th>Interface Type</th>
<th>Voltage</th>
<th>SPI</th>
<th>I2C</th>
<th>UART</th>
<th>GPIO</th>
<th>PWM</th>
<th>AN</th>
<th>MSRP</th>
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<tbody>
<tr>
<td>CAN Isolator Click</td>
<td>5V, 3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
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<td>MIKROE-2627</td>
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<td>I2C</td>
<td>UART</td>
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<td>PWM</td>
<td>AN</td>
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<td>PWM</td>
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<tr>
<td>DALI Click</td>
<td>5V, 3.3V</td>
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<td>MIKROE-1297</td>
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<tr>
<td>ETH Click</td>
<td>5V, 3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
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<td>MIKROE-971</td>
</tr>
</tbody>
</table>

- **CAN Isolator Click**: Provides isolated CAN communication. Data rates of up to 1 Mbps. Carries a DB 9-pin male connector.
- **CAN SPI Click 3.3V**: Adds CAN connectivity with SPI interface. Features SN65HVD230 CAN transceiver circuit.
- **CAN SPI Click 5V**: Adds CAN connectivity with SPI interface. With MCP2551 CAN transceiver circuit.
- **DALI Click**: Provides Digital Lighting Interface. With two optocouplers, push button, screw terminal.
- **ETH Click**: With ENC28J60, a 28-pin, 10BASE-T stand-alone Ethernet controller with an on-board MAC & PHY.
ETH WIZ Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

With W5500, a 48-pin, 10/100 BASE-TX stand-alone Ethernet controller. Standard RJ-45 connector.

MSRP – $1900
MIKROE-1718

EXPAND Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Expands the number of input-output lines with Microchip’s 16-bit I/O expander MCP23S17.

MSRP – $1200
MIKROE-951

Expand 2 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Expands the number of input-output lines with Microchip’s 16-bit I/O expander MCP23017.

MSRP – $1200
MIKROE-1838

Expand 3 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

With DS2408, an 8-channel programmable I/O expander from Maxim Integrated.

MSRP – $1900
MIKROE-1874

EXPAND 4 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Port expander for high power peripherals with TPCIC6A595 power logic 8-bit register.

MSRP – $1400
MIKROE-1910
Fiber Opt Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Adds fiber-optic communication with IF-D91 fiber-optic photodiode, IF-E97 fiber-optic LED diode.
MSRP – $34.00
MIKROE-1940

FTDI Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With FT2232H - dual high speed USB 2.0 to UART/I2C/SPI serial interface converter.
MSRP – $29.00
MIKROE-1421

I2C 1-Wire Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Performs bidirectional conversions between I2C masters and 1-Wire slave devices with DS2482-800.
MSRP – $28.00
MIKROE-1892

I2C Isolator Click
5V 3.3V SPI I2C
UART GPIO PWM AN
TI’s ISO1540, a low-power, bidirectional isolator compatible with I2C interfaces.
MSRP – $18.00
MIKROE-1878

I2C Isolator 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Provides I2C lines and power isolation for slave devices with ADM3260 dual I2C isolator.
MSRP – $24.00
MIKROE-2609
MCP2003B Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It's a physical interface to automotive and industrial LIN systems with a bi-directional LIN transceiver.
MSRP – $18
MIKROE-2227

MCP2517FD Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With MCP2517FD CAN FD controller and ATA6563 high-speed CAN transceiver.
MSRP – $25
MIKROE-2379

RS485 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries MAX3471 half-duplex transceiver for lithium battery-powered RS-485/RS-422 applications.
MSRP – $18
MIKROE-2700

MCP2542 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Microchip's CAN FD Transceiver with Wake-Up Pattern. Compliant with CAN 2.0 and CAN FD.
MSRP – $20
MIKROE-2299

RS485 Click 3.3V
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries SN-65HVD12 half-duplex, RS-485 transceiver from Texas Instruments.
MSRP – $18
MIKROE-989
**MCP25625 Click**

- **5V 3.3V SPI I2C**
- UART GPIO PWM AN

With CAN controller with an integrated transceiver. High speed operation up to 1 Mb/s.

**MSRP – $24.00**
MIKROE-2228

**RS485 Click 5V**

- **5V 3.3V SPI I2C**
- UART GPIO PWM AN

Carries the ADM485 differential line transceiver from Analog Devices.

**MSRP – $18.00**
MIKROE-925

**PS/2 Click**

- **5V 3.3V SPI I2C**
- UART GPIO PWM AN

Adds keyboard and mouse connectivity. With a standard 6-pin Mini-DIN PS/2 connector.

**MSRP – $9.00**
MIKROE-1576

**PWM Click**

- **5V 3.3V SPI I2C**
- UART GPIO PWM AN

For controlling 16 PWM outputs through a single I2C interface. With PCA9685PW IC.

**MSRP – $14.00**
MIKROE-1898

**SPI Isolator Click**

- **5V 3.3V SPI I2C**
- UART GPIO PWM AN

Carries ADuM4154 5kV digital isolator optimized for a serial peripheral interface [SPI].

**MSRP – $29.00**
MIKROE-2583
RS485 Isolator Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Adds RS485 connectivity with a standard RS485 DB9 port and a MAX3232 IC.

**MSRP – $49.99**

MIKROE-2673

RS232 Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

With ADM2682EBRIZ, a 5 kV RMS signal and power isolated RS-485 transceiver.

**MSRP – $49.99**

MIKROE-2673

USB I2C Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

With MCP2221 USB-to-I2C converter. Full-speed USB (12 Mb/s), I2C up to 400 kHz clock rates.

**MSRP – $13.99**

MIKROE-1985

USB SPI Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Microchip’s MCP2210 USB-to-SPI protocol converter with GPIO as well as USB MINI B connector.

**MSRP – $13.99**

MIKROE-1204

USB UART 2 Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Provides USB isolation and carries the AD-UM4160BRWZ USB port isolator.

**MSRP – $39.99**

MIKROE-2674
USB UART Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

Adds serial UART communication via USB cable. With FT232RL USB-to-UART interface module.

MSRP – $13\textsuperscript{90}

MikroE-1203

ATA663254 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

It is a fully integrated LIN transceiver device with an integrated 5V LDO voltage regulator.

MSRP – $16\textsuperscript{00}

MikroE-2872

BroadR-Reach Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

For realizing network in harsh environments that require reliable Ethernet-based open network.

MSRP – $69\textsuperscript{90}

MikroE-2796

USB UART 4 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

USB to asynchronous serial data transfer interface. With FT232RL USB-to-UART interface module.

MSRP – $13\textsuperscript{90}

MikroE-2810

RS232 Isolator Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

Isolated dual transceiver Click – secure and easy UART to RS232 conversion, with galvanic isolation.

MSRP – $56\textsuperscript{00}

MikroE-2864
OBDII Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Tap inside the car diagnostic systems! Features the STN1110 Multiprotocol OBD to UART Interface.

MSRP – $47.90
Mikroe-2452

RS485 3 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

The Click is intended to be used as UART to RS422/RS485 communication interface.

MSRP – $20.00
Mikroe-2821
16x12 G Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries a 16x12 LED display and the IS-31FL3733 matrix driver with 1/12 cycle rate.
MSRP – $300
MIKROE-2758

16x9 G Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With a green 16x9 LED matrix and IS31FL3731 audio modulated matrix LED driver.
MSRP – $340
MIKROE-2520

4Dot-Matrix R Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Displays 4 char. of 5x7 dot size. With SLO2016 module and MCP23017 I2C port expander.
MSRP – $590
MIKROE-2706

4X4 RGB Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With a matrix of 16 WS2812 RGB LEDs a MCP1826 low dropout regulator.
MSRP – $190
MIKROE-1881

7-SEG RGB Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries a full color single 7 segment digit display. 16,581,375 color combinations.
MSRP – $290
MIKROE-2734
7seg Click
5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
2-digit seven-seg display. With two 74HC595 8-bit serial-in, parallel-out shift registers.
MSRP – $10.00
Mikroe-1201

7x10 B Click
5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
With a matrix of 70 blue LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $15.00
Mikroe-2789

7x10 G Click
5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
With a matrix of 70 green LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $15.00
Mikroe-2705

7x10 R Click
5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
With a matrix of 70 red LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $15.00
Mikroe-1993

7x10 Y Click
5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
With a matrix of 70 yellow LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers.
MSRP – $15.00
Mikroe-2790
It features MAX7219 8-digit LED display driver module as well as 64 BLUE LEDs.

**MSRP – $18**
MKROE-1307

It features MAX7219 8-digit LED display driver module as well as 64 GREEN LEDs.

**MSRP – $15**
MKROE-1308

It features MAX7219 8-digit LED display driver module as well as 64 RED LEDs.

**MSRP – $15**
MKROE-1295

It features MAX7219 8-digit LED display driver module as well as 64 YELLOW LEDs.

**MSRP – $15**
MKROE-1294

Matrix text display with two green 5x7 matrices and two MAX7219 8-bit LED display drivers.

**MSRP – $29**
MKROE-2246
BarGraph Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With 10-segment JSB-R102510Z light bar display and two 74HC595 8-bit shift registers.

MSRP – $1200
Mikroe-1423

BIG 7-SEG R Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With SC10-21SR-WA seven-segment display and parallel-OUT shift register 74HC595.

MSRP – $1900
Mikroe-2269

eINK Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With an adapter for connecting eINK displays, with a 24pin ribbon cable.

MSRP – $5900
Mikroe-2659

EVE Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Brings visually stunning graphics even to 8-bit MCUs, with FT800Q graphics controller.

MSRP – $3900
Mikroe-1430

LCD mini Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Displays 2x16 mono-chrome characters on an LMB162XFW LCD display.

MSRP – $1900
Mikroe-2453
LED Flash Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Functions as a high power LED flash, and carries the CAT3224 flash LED driver.

MSRP – $34.00
MIKROE-2479

LED Flash 2 Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

It is a powerful flash/torch Click, featuring the MIC2870 from Microchip.

MSRP – $19.00
MIKROE-2830

Led ring R Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With a ring of 32 red LEDs driven by four 74HC595 serial-in, parallel-out shift registers.

MSRP – $16.00
MIKROE-2153

AlphaNum R Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With a dual character red LED 14-segment display and two TLC5926 16-bit shift registers.

MSRP – $15.00
MIKROE-1864

AlphaNum G Click

- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With a dual character green LED 14-segment display and two TLC5926 16-bit shift registers.

MSRP – $15.00
MIKROE-1891
Matrix R Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Matrix text display with two red 5x7 matrices and two MAX7219 8-bit LED display drivers.  
MSRP – $29.00  
MIKROE-2245

Matrix RGB Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Powered by a 32-bit FT900 MCU designed specifically for powering 16x32 RGB LED matrices.  
MSRP – $24.00  
MIKROE-2239

OLED B Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
With a 96 x 39px blue monochrome passive matrix OLED display and SSD1306 controller.  
MSRP – $24.00  
MIKROE-1650

OLED C Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
With PSP27801 OLED display and SSD1351 OLED driver with controller. Various color support.  
MSRP – $29.00  
MIKROE-1585

OLED Switch Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
With NKK Switch IS-C15ANP4 that combines a switch and a full color organic LED display.  
MSRP – $99.00  
MIKROE-2449
<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Price</th>
</tr>
</thead>
</table>
| **OLED W Click** | 5V, 3.3V, SPI, I2C, UART, GPIO, PWM, AN  
Carries a 96x39px white monochrome passive matrix OLED display. | MSRP – $24.00  
MIKROE-1649 |
| **OSD Click** | 5V, 3.3V, SPI, I2C, UART, GPIO, PWM, AN  
With MAX7456 single-channel monochrome OSD module with integrated EEPROM memory. | MSRP – $35.00  
MIKROE-1368 |
| **UT-L 7-SEG R Click** | 5V, 3.3V, SPI, I2C, UART, GPIO, PWM, AN  
With two SMD ultra-thin LED 7-SEG displays and MAX6969 constant-current LED driver. | MSRP – $44.00  
MIKROE-2034 |
| **UT-M 7-SEG R Click** | 5V, 3.3V, SPI, I2C, UART, GPIO, PWM, AN  
Add a double 7 segment display to your next project. RED emitting color. | MSRP – $20.00  
MIKROE-2746 |
| **UT-S 7-SEG R Click** | 5V, 3.3V, SPI, I2C, UART, GPIO, PWM, AN  
For displaying characters on two 7 segment displays. RED emitting color. | MSRP – $20.00  
MIKROE-2840 |
BarGraph 2 Click

5V 3.3V SPI I2C
UART:GPIO:PWM:AN

The 74HC595, 8-bit serial-in, parallel-out shift registers with output latches.

MSRP – $19.00
MIKROE-3021

RGB Driver Click

5V 3.3V SPI I2C
UART:GPIO:PWM:AN

The NCP5623B, a triple output RGB LED driver, controlled via the I2C interface, from ON Semiconductors.

MSRP – $15.00
MIKROE-3078
### 2x2 Key Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

The Click has a 4 button keypad. It allows multiple key presses and has a debounce circuit.

**MSRP – $9\textsuperscript{90}**
MIKROE-2152

### 4x4 Key Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

Carries a 16 button keypad. Allows for multiple key presses at the same time.

**MSRP – $11\textsuperscript{00}**
MIKROE-1889

### Button G Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

A single pushbutton - transparent, 6.8mm in diameter, with a green LED backlight.

**MSRP – $9\textsuperscript{90}**
MIKROE-2040

### Button R Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

A single pushbutton - transparent, 6.8mm in diameter, with a red LED backlight.

**MSRP – $9\textsuperscript{90}**
MIKROE-1901

### Cap Extend Click
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

With SX8633, capacitive button touch controller. 12 pins for connecting capacitive inputs.

**MSRP – $18\textsuperscript{00}**
MIKROE-2238
CapSense Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Capacitive sensing module. Input - human body capacitance, output - the real-time sensor information.

MSRP – $16.00
Mikroe-1446

COUNTER Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Counter Click carries an LS7366R 32-bit quadrature counter.

MSRP – $25.00
Mikroe-1917

Fingerprint Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Solution for adding biometric security to your design.

MSRP – $55.00
Mikroe-1722

IR gesture Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Enables contactless gesture recognition. With ambient light and proximity sensing capabilities.

MSRP – $16.00
Mikroe-2086

Joystick Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

A smart navigation key concept based on contactless, magnetic movement detection.

MSRP – $22.00
Mikroe-1506
Carries a processed sealed key lock mechanism that can be set in 3 different positions.

**Keylock Click**

5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN

**ROTARY B Click**

5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 blue LEDs.

**ROTARY G Click**

5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 green LEDs.

**ROTARY O Click**

5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 orange LEDs.

**ROTARY R Click**

5V  3.3V  SPI  I2C
UART: GPIO: PWM: AN
With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 red LEDs.

MSRP – $25.00
MIKROE-2564

MSRP – $12.00
MIKROE-1824

MSRP – $12.00
MIKROE-1822

MSRP – $12.00
MIKROE-2380

MSRP – $12.00
MIKROE-1823
ROTARY Y Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 yellow LEDs.
- MSRP – $1200
  MIKROE-1825

Tamper Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- Equipped with SDS001, a low profile side-actuated detect switch.
- MSRP – $900
  MIKROE-2551

Tamper 2 Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- Levered D2HW-A221D switch. Outputs signal in both positions - pressed and released.
- MSRP – $1500
  MIKROE-2552

Thumb wheel Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- With a 10-position rotary sprocket connected to a 1-Wire 8-Channel Addressable Switch.
- MSRP – $2900
  MIKROE-2366

TouchClamp Click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- With NXP’s MPR121 proximity capacitive touch sensor controller. 7 plated holes for clamps.
- MSRP – $900
  MIKROE-2294
Touchpad Click
5V, 3.3V, SPI, I2C
Capacitive touch input device driven by Microchip’s MTCH6102 controller.
MSRP – $15.00
MIKROE-1995

Thumbstick Click
5V, 3.3V, SPI, I2C
A high precision input device with a dual axis, spring return and push-button enabled joystick.
MSRP – $20.00
MIKROE-1627

Cap Extend 3 Click
5V, 3.3V, SPI, I2C
With four capacitive sensor pads that can sense touch through a variety of different materials.
MSRP – $16.00
MIKROE-2474

Cap Touch Click
5V, 3.3V, SPI, I2C
A capacitive touch sensing button, integrated on a Click board™.
MSRP – $16.00
MIKROE-2888

Cap Touch 2 Click
5V, 3.3V, SPI, I2C
A capacitive touch sensing button, which features the CAP1166.
MSRP – $15.00
MIKROE-2964
**TouchKey Click**

5V | 3.3V | SPI | I2C

- UART: GPIO: PWM: AN

It has four capacitive pads powered by TTP224, a touch-pad detector IC.

**MSRP – $12**

**MIKROE-1906**

**TouchKey 2 Click**

5V | 3.3V | SPI | I2C

- UART: GPIO: PWM: AN

With 4 capacitive pads powered by Microchip’s ATtiny817. Integrated touch QTouch® controller.

**MSRP – $16**

**MIKROE-2474**

**TouchKey 3 Click**

5V | 3.3V | SPI | I2C

- UART: GPIO: PWM: AN

Equipped with advanced capacitive sensors, based on the proprietary QTouch® technology.

**MSRP – $19**

**MIKROE-2405**

**TouchKey 4 Click**

5V | 3.3V | SPI | I2C

- UART: GPIO: PWM: AN

A capacitive touch sensing button, with the advanced touch/proximity sensor IC.

**MSRP – $15**

**MIKROE-2985**
Skywire™ Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Adapter Click, which hosts NimbeLink/Skywire™ cellular modems [using stacking headers].
MSRP – $19⁰⁰
MIKROE-2405

Adapter Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Simplifies connection of the add-on boards with IDC10 headers to mikroBUS™ socket.
MSRP – $6⁰⁰
MIKROE-1432

Riverdi Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
An adapter for connecting Riverdi TFT displays to a mikroBUS™ socket.
MSRP – $9⁰⁰
MIKROE-2100

Shuttle Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
The mikroBUS™ socket expansion board, which allows stacking up to four Click boards™.
MSRP – $8⁰⁰
MIKROE-2880
STORAGE

EEPROM Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With 24C08WP - a highly reliable, high performance CMOS technology serial 8K EEPROM.
MSRP – $800
MIKROE-1200

EEPROM 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With M95MO2-DR DIP-8 socket EEPROM chip with 256 KB of memory from STMicroelectronics.
MSRP – $1800
MIKROE-1909

EEPROM 3 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With AT24CM02 DIP-8 socket EEPROM chip with 256 KB of memory from Microchip.
MSRP – $1400
MIKROE-1989

EERAM 3.3V Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With 47L16 EERAM, a 16Kbit SRAM with EEPROM Backup from Microchip.
MSRP – $1400
MIKROE-2728

EERAM 5V Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With 47C16 EERAM, a 16Kbit SRAM with EEPROM Backup from Microchip.
MSRP – $1400
MIKROE-2729
**Flash Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
With EN25Q80B - 8Mb serial Flash memory module. Clock frequency up to 75MHz.  
MSRP – $1000  
MIKROE-1199

**Flash 2 Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
It carries Microchip’s SST26VF064B flash-memory module with 64 Mbits capacity.  
MSRP – $1200  
MIKROE-2267

**Flash 3 Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
With ISSI’s IS25LP128 IC with 128 Mbit capacity. 50MHz at Normal, 133MHz at Fast Read speeds.  
MSRP – $1200  
MIKROE-2374

**FRAM Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
256K (32,768 words x 8 bits) of Ferroelectric Random Access Memory with MB85RS256A module.  
MSRP – $1500  
MIKROE-1486

**FRAM 2 Click**  
5V | 3.3V | SPI | I2C  
UART | GPIO | PWM | AN  
With CY15B104Q 4-Mbit (512K x 8) serial F-RAM from Cypress. 100 trillion \(10^{14}\) read/writes.  
MSRP – $1900  
MIKROE-2768
MAC Address Click

5V 3.3V SPI I2C
UART GPIO PWM AN

A unique node address. Carries 24AA025E64 2Kb Serial EEPROM with EUI-64™ node identity.

MSRP – $9⁰⁰
MIKROE-2733

microSD Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With a microSD card slot for microSD cards used as a mass storage media for portable devices.

MSRP – $16⁰⁰
MIKROE-924

Secure Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With ATECC508A cryptographic coprocessor with secure hardware-based key storage.

MSRP – $9⁰⁰
MIKROE-2522

Secure 2 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Microchip’s ATAES132A, a cryptographic coprocessor with secure hardware-based key storage.

MSRP – $9⁰⁰
MIKROE-2760

Secure 3 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Microchip’s ATSHA204A, a cryptographic coprocessor with secure hardware-based key storage.

MSRP – $9⁰⁰
MIKROE-2761
Secure 4 Click
5V | 3.3V | SPI | I2C
Includes the ATECC608A, a secure CryptoAuthentication™ device from Microchip.
MSRP – $900
MIKROE-2829

SRAM Click
5V | 3.3V | SPI | I2C
5V | UART | GPIO | PWM | AN
Provides 1 Mbit of additional SRAM memory, via Microchip’s 23LC1024.
MSRP – $150
MIKROE-1902

SQI FLASH Click
5V | 3.3V | SPI | I2C
5V | UART | GPIO | PWM | AN
Based on the SST-26VF064B, a 64 Mbit Serial Quad I/O flash device from Microchip.
MSRP – $130
MIKROE-2828

EEPROM 4 Click
5V | 3.3V | SPI | I2C
5V | UART | GPIO | PWM | AN
An EEPROM memory medium with the capacity of 256KB.
MSRP – $150
MIKROE-2536

MRAM Click
5V | 3.3V | SPI | I2C
5V | UART | GPIO | PWM | AN
Uses the MR25H256, a 256 kilobits serial SPI MRAM memory module from Everspin company.
MSRP – $18
MIKROE-2914
It features two VO2630 dual channel, high speed optocoupler modules.

**Opto Click**

<table>
<thead>
<tr>
<th>5V</th>
<th>3.3V</th>
<th>SPI</th>
<th>I2C</th>
</tr>
</thead>
<tbody>
<tr>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
</tbody>
</table>

MSRP – $21.00
MKR0E-1196

With two G6D1AA-SI-5DC power PCB relay modules. Controls up to 5A, 250V AC/30V DC loads.

**RELAY Click**

<table>
<thead>
<tr>
<th>5V</th>
<th>3.3V</th>
<th>SPI</th>
<th>I2C</th>
</tr>
</thead>
<tbody>
<tr>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
</tbody>
</table>

MSRP – $18.00
MKR0E-1370

Carries two LCA717 single-pole, OptoMOS® solid state relays.

**Relay 2 Click**

<table>
<thead>
<tr>
<th>5V</th>
<th>3.3V</th>
<th>SPI</th>
<th>I2C</th>
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</thead>
<tbody>
<tr>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
</tbody>
</table>

MSRP – $26.00
MKR0E-1899

10x11 prototyping area and additional power pads for creating custom electronics or Click boards™.

**PROTO Click**

<table>
<thead>
<tr>
<th>5V</th>
<th>3.3V</th>
<th>SPI</th>
<th>I2C</th>
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<tbody>
<tr>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
</tbody>
</table>

MSRP – $45.00
MKR0E-1507

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

**FLICKER Click**

<table>
<thead>
<tr>
<th>5V</th>
<th>3.3V</th>
<th>SPI</th>
<th>I2C</th>
</tr>
</thead>
<tbody>
<tr>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
</tbody>
</table>

MSRP – $19.00
MKR0E-2481
Signal Relay Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN

It carries four ultra-small GV5-1 PCB relays from Omron. For ON/OFF control.

MSRP – $29.00
MIKROE-2154

UNIQUE ID Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN

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

MSRP – $9.00
MIKROE-1819

TESTER Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN

An ideal solution for testing and diagnostics of the mikroBUS™ socket pin states.

MSRP – $6.00
MIKROE-3083

Opto 2 Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN

Uses four TLP2770, 20-Mbps low-power optocouplers, from Toshiba.

MSRP – $25.00
MIKROE-3015
Toshiba’s TB6575F-NG IC for driving 3-phase full-wave Brushless DC motors. It carries TI’s DRV10964 BLDC motor controller with an integrated output stage.

**MSRP – $39**

MIKROE-2441

With Toshiba’s TB6593F-NG driver IC for direct current motors. Motors’ supply voltage 2.5V-13V.

**MSRP – $17**

MIKROE-2699

It carries TI’s DRV10983 three-phase sensorless motor driver with integrated power MOSFETs.

**MSRP – $19**

MIKROE-2766

With TI’s DRV8833RT-YH-Bridge motor driver and TI’s 74HC4053 multiplexer.

**MSRP – $18**

MIKROE-1526
<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage Supply</th>
<th>Interface</th>
<th>MSRP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC MOTOR 3 Click</td>
<td>5V, 3.3V</td>
<td>SPI, I2C</td>
<td>$19&lt;sup&gt;00&lt;/sup&gt;</td>
<td>With Toshiba’s TB-6549FG full-bridge driver for direct current motors. Up to 3.5A with 30V.</td>
</tr>
<tr>
<td>DC MOTOR 4 Click</td>
<td>5V, 3.3V</td>
<td>SPI, I2C</td>
<td>$15&lt;sup&gt;00&lt;/sup&gt;</td>
<td>With MAX14870 motor driver from Maxim Integrated. Motors’ voltage supply 4.5V-36V.</td>
</tr>
<tr>
<td>DC MOTOR 5 Click</td>
<td>5V, 3.3V</td>
<td>SPI, I2C</td>
<td>$17&lt;sup&gt;00&lt;/sup&gt;</td>
<td>With TI’s DRV8701 brushed DC motor full-bridge gate driver. Operating voltage supply 5.9V-45V.</td>
</tr>
<tr>
<td>Fan Click</td>
<td>5V, 3.3V</td>
<td>GPIO, PWM</td>
<td>$9&lt;sup&gt;00&lt;/sup&gt;</td>
<td>With EMC2301 controller for powering and regulating the operation of 5V four-wire fans.</td>
</tr>
<tr>
<td>Fan 2 Click</td>
<td>5V, 3.3V</td>
<td>GPIO, PWM</td>
<td>$15&lt;sup&gt;00&lt;/sup&gt;</td>
<td>With MAX31760 precision fan-speed controller. Can control two fans at the same time.</td>
</tr>
</tbody>
</table>
HAPTIC Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

With DRV2605 Haptic Driver for ERM and LRA vibration motors. Over 100 haptic effects library.

MSRP – $29.00
MIKROE-2025

PWM driver Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Silicon Labs’ Si8711CC one-channel isolator for controlling DC motors with loads up to 10A.

MSRP – $14.00
MIKROE-2272

STEPPER Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

With A3967SLBT microstepping motor driver with a built-in translator. Max. output drive 30V, ±500 mA.

MSRP – $18.00
MIKROE-1528

STEPPER 2 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

With A4988 microstepping motor driver. Required external power supply minimum 7V.

MSRP – $19.00
MIKROE-1928

STEPPER 3 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

With TI’s ULN2003 High-Current Darlington transistor array. For precise motor control.

MSRP – $19.00
MIKROE-2035
**STEPPER 4 Click**

5V 3.3V SPI I2C

UART GPIO PWM AN

With TB67S269FTG two-phase bipolar stepping motor driver from Toshiba.

MSRP – $1900

Mikroe-2748

---

**Brushless 6 Click**

5V 3.3V SPI I2C

UART GPIO PWM AN

Designed to drive a three-phase sensorless, brushless motor. With ATmega8A from Microchip.

MSRP – $2700

Mikroe-2847

---

**Fan 3 Click**

5V 3.3V SPI I2C

UART GPIO PWM AN

Perfect solution for speed control. It can operate in seven discrete speed steps.

MSRP – $1700

Mikroe-2841

---

**Vibro Motor Click**

5V 3.3V SPI I2C

UART GPIO PWM AN

Features a compact size Eccentric Rotating Mass (ERM) motor, labeled as C1026B002F.

MSRP – $1200

Mikroe-2826

---

**DC Motor 8 Click**

5V 3.3V SPI I2C

UART GPIO PWM AN

The MIC4605, 85V half-bridge MOSFET driver with adaptive dead time and shoot-through protection.

MSRP – $800

Mikroe-2893
**Stepper 7 Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

MTS62C19A Dual Full-Bridge Motor Driver, MCP23S08 8bit I/O Expander with Serial Interface.

MSRP – **$17**

Mikroe-2912

---

**H-Bridge Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Uses the MC34933, a dual H-bridge driver, from NXP.

MSRP – **$16**

Mikroe-3031

---

**H-Bridge 2 Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Uses the MPC17510, an H-Bridge DC motor driver, with up to 15V and 1.2A, from NXP.

MSRP – **$18**

Mikroe-3000

---

**Brushless 4 Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

The MCP8063, a 3 phase brushless sinusoidal sensorless motor driver, from Microchip.

MSRP – **$19**

Mikroe-3019

---

**Brushless 5 Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Uses the A4941, a three-phase sensorless fan driver IC, made by Allegro MicroSystems LLC.

MSRP – **$19**

Mikroe-3032
Stepper 5 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Uses the TM2208, a highly integrated bipolar step motor power driver, with the UART interface.

MSRP – $1700
MIKROE-2624

Driver Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

The DRV777, an integrated motor and relay driver from Texas Instruments.

MSRP – $1300
MIKROE-3109
2x20W Amp Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries MAX9744 stereo class D audio power amplifier from Maxim Integrated.

MSRP – $21.00
MIKROE-2779

2x5W AMP Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Functions as an amplifier. With TDA7491LP 2x5-watt dual BTL class-D audio amplifier.

MSRP – $19.00
MIKROE-2477

AudioAmp Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A mono audio amplifier. With TI’s LM48100Q-Q1 Boomer™ Mono, 1.3W Audio Power Amplifier IC.

MSRP – $14.00
MIKROE-2368

BUZZ Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Features a piezo speaker capable of emitting audio signals. Resonant frequency 3.8 kHz.

MSRP – $9.00
MIKROE-945

BUZZ 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With CMT-BT40S-SMT magnetic buzzer transducer. The buzzer’s resonant frequency is 4 kHz.

MSRP – $12.00
MIKROE-2720

Carries MAX9744 stereo class D audio power amplifier from Maxim Integrated.
StereoAmp Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With 2 TI's LM48100Q-Q1 Boomer™ single supply, mono, bridge-tied load amplifier ICs.

MSRP – $24.00
MIKROE-2454

TextToSpeech Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With S1V30120 speech synthesis IC powered by the Fonix DECTalk® v5 speech synthesis engine.

MSRP – $39.00
MIKROE-2253

GainAMP 2 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

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

MSRP – $15.00
MIKROE-2859

RadioStation Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With the Si4713-B30, the best in class integrated FM broadcast stereo transmitter.

MSRP – $25.00
MIKROE-2822

Noise Click

5V 3.3V SPI I2C
UART GPIO PWM AN

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

MSRP – $29.00
MIKROE-2371
**FM Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**

Features Si4703 IC and functions as a FM radio tuner. Supports worldwide FM band (76–108 MHz).

**MSRP – $29.00**

MIKROE-1401

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**GainAMP Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**

Carries LTC®6912 dual channel, low noise, digitally programmable gain amplifier (PGA).

**MSRP – $15.00**

MIKROE-2555

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**Mic Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**

With SPQ0410HR5H-B surface mount silicon microphone with max. RF protection.

**MSRP – $9.00**

MIKROE-2563

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**MP3 Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**

With a stereo MP3 decoder VS1053. Multiple formats (MP3, MP1, MP2, MPEG4, etc.).

**MSRP – $21.00**

MIKROE-946

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**2x30W Amp Click**

- **5V**
- **3.3V**
- **SPI**
- **I2C**

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

**MSRP – $23.00**

MIKROE-3010

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**AUDIO AND VOICE**
AudioAmp 2 Click

5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN

The TDA7491, a 20W dual BTL class-D audio amplifier IC, from STMicroelectronics.

MSRP – $21.00
MIKROE-3077

SpeakUp Click

5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN

A speech recognition Click. Can recognize over 200 different voice commands.

MSRP – $39.00
MIKROE-1534

SpeakUp 2 Click

5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN

A speech recognition Click. Set it up to recognize up to 100 commands.

MSRP – $34.00
MIKROE-2375
**Ammeter Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C

With circuitry for measuring electric current [AC and DC], 0.1A-1A measurement range.

**MSRP – $24**

*Mikroe-2377*

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**C Meter Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C

Circuitry for measuring the value of capacitors. Based on NE-555 timer/square-wave generator.

**MSRP – $9**

*Mikroe-2376*

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**Comparator Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C

Carries LM2903 IC, has two independent precision voltage comparators. 2 mV offset voltage.

**MSRP – $12**

*Mikroe-1915*

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**DAC Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C

Includes a 12-bit Digital-to-Analog Converter MCP4921 from Microchip.

**MSRP – $18**

*Mikroe-950*

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**DAC 2 Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C

Carries LTC2601CDD, a 16-bit digital-to-analog converter from Linear Technology.

**MSRP – $19**

*Mikroe-1918*
DAC 3 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Carries Microchip’s MCP4726 IC, a 12-bit digital-to-analog converter.

MSRP – $18<sup>00</sup>
MIKROE-2038

DIGI POT Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Carries MCP416 single-channel 8-bit resolution [256 wiper steps] digital potentiometer.

MSRP – $16<sup>90</sup>
MIKROE-923

DIGI POT 2 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Carries a single channel digital potentiometer TPL0501 with 256 wiper positions.

MSRP – $16<sup>90</sup>
MIKROE-2332

ADC 2 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With MCP3551/3, a 22-bit ADC with automatic internal offset and gain calibration.

MSRP – $24<sup>00</sup>
MIKROE-1893

ADC 3 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With Microchip’s MCP3428 16-bit multichannel analog-to-digital converter.

MSRP – $22<sup>00</sup>
MIKROE-1894
R Meter Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With circuitry for measuring the value of resistors. A wide range of resistors (0-1 Mega Ohm).

MSRP – $27\textsuperscript{00}
MIKROE-2396

Voltmeter Click

5V 3.3V SPI I2C
UART GPIO PWM AN

For measuring voltage in an external electric circuit. Measures direct current [from 0 to 24V].

MSRP – $24\textsuperscript{00}
MIKROE-2436

ADC 4 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

An advanced analog to digital multichannel converter. It can work in 16bit or 24bit mode.

MSRP – $65\textsuperscript{00}
MIKROE-2846

ADC 5 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

With a low power, single channel 12-bit CMOS analog to digital converter.

MSRP – $18\textsuperscript{00}
MIKROE-2873

DIGI POT 4 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

A digitally controlled dual potentiometer, with the resistance of 10KΩ.

MSRP – $21\textsuperscript{00}
MIKROE-2873
**DIGI POT 5 Click**

5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN

A digitally controlled quad potentiometer, with the resistance of 10KΩ.

MSRP – $1690
MIKROE-2863

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**PIXI™ Click**

5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN

Features proprietary PIXI™ technology. Configurable 20-channel mixed-signal data converter.

MSRP – $2900
MIKROE-2817

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**Slider Click**

5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN

Features a mechanical slide action potentiometer.

MSRP – $2400
MIKROE-2702

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**LEM Click**

5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN

Measures AC and DC current (up to 200 KHz). With LTS 6-NP current transducer.

MSRP – $5900
MIKROE-2553

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**PAC1934 Click**

5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN

Carries PAC1934 four channel DC power/energy monitor from Microchip.

MSRP – $2900
MIKROE-2735
The TC9400, a voltage-to-frequency and frequency-to-voltage converter from Microchip.

MIXED-SIGNAL

MSPR – $27.00
MIKROE-2889

The PAC1921, a high side power/current monitor from Microchip.

MSPR – $17.00
MIKROE-2910

The AD5321, a 1024-position (10bit) digital potentiometer with a non-volatile memory (EEMEM).

MSPR – $21.00
MIKROE-3016

The LTC2500-32. It is a 32-bit oversampling ADC with a configurable digital filter, from Analog Devices.

MSPR – $99.00
MIKROE-3115
**Multimeter Click**

5V 3.3V SPI I2C

UART | GPIO | PWM | AN

Has different ICs: amplifiers, NE555 timer, BCD decoder, frequency to voltage converter, and an A/D converter (ADC).

MSRP – $39\textdollar^{00}
MIKROE-3116

**AC Current Click**

5V 3.3V SPI I2C

UART | GPIO | PWM | AN

Measure alternating currents up to 30A. MCP3201 ADC converter and MCP607 CMOS Op Amp.

MSRP – $14\textdollar^{00}
MIKROE-2523

**ADAC Click**

5V 3.3V SPI I2C

UART | GPIO | PWM | AN

It’s an 8-channel 12-bit ADC, DAC and GPIO. With AD5593R configurable ADC/DAC.

MSRP – $26\textdollar^{00}
MIKROE-2690

**ADC Click**

5V 3.3V SPI I2C

UART | GPIO | PWM | AN

With Microchip’s MCP3204 12-bit Analog-to-Digital converter.

MSRP – $24\textdollar^{00}
MIKROE-922

**ADC 6 Click**

5V 3.3V SPI I2C

UART | GPIO | PWM | AN

With the AD7124-8, an 8 channel, low noise, low power, 24bit sigma-delta ADC.

MSRP – $29\textdollar^{00}
MIKROE-2932
POWER MANAGEMENT

Boost Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries Microchip’s MIC2606, a 2MHz, PWM DC/DC boost switching regulator.
MSRP – $21.00
MIKROE-2780

BOOST 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A DC-DC step-up regulator that has a fixed 5V output.
MSRP – $15.00
MIKROE-2894

Boost 4 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries TI’s TPS61230A, a high efficiency fully integrated synchronous boost converter.
MSRP – $17.00
MIKROE-2757

Nano Power 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
The MAX40000AUT12+, a nanoPower comparator with built-in reference.
MSRP – $11.00
MIKROE-3036

LED driver Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries MCP1662 high-voltage step-up voltage driver from Microchip.
MSRP – $15.00
MIKROE-2676
**MCP1664 Click**

5V | 3.3V | SPI | I2C

UART:GPIO:PWM:AN

With 4 high-power white LEDs. Carries Microchip’s MCP1664, a high-voltage step-up LED driver.

MSRP – $26\textsuperscript{00}
MIKROE-2548

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**MCP73213 Click**

5V | 3.3V | SPI | I2C

UART:GPIO:PWM:AN

Carries MCP73213 dual-cell Li-Ion/Li-Polymer battery charge management controller.

MSRP – $18\textsuperscript{00}
MIKROE-2575

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**MIC23099 Click**

5V | 3.3V | SPI | I2C

UART:GPIO:PWM:AN

Carries MIC23099 single AA/AAA cell step-down/step-up regulator with battery monitoring.

MSRP – $29\textsuperscript{00}
MIKROE-2765

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**MIC24045 Click**

5V | 3.3V | SPI | I2C

UART:GPIO:PWM:AN

Carries MIC24045 5A synchronous step-down regulator. Input range 4.5V-19V.

MSRP – $13\textsuperscript{00}
MIKROE-2443

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**VREG Click**

5V | 3.3V | SPI | I2C

UART:GPIO:PWM:AN

Digitally controlled DC voltage regulator. Based on the well-known LM317 circuit.

MSRP – $24\textsuperscript{00}
MIKROE-2443
**POWER MANAGEMENT**

- **Buck-Boost Click**
  - 5V
  - 3.3V
  - SPI
  - I2C
  - UART
  - GPIO
  - PWM
  - AN
  - Features LTC3129-1, a buck-boost DC/DC conversion integrated circuit.
  - MSRP – $20
  - MKROE-2806

- **Charger 5 Click**
  - 5V
  - 3.3V
  - SPI
  - I2C
  - UART
  - GPIO
  - PWM
  - AN
  - Designed to charge Lithium-Ion and Lithium-Polymer batteries.
  - MSRP – $16
  - MKROE-2848

- **LED driver 2 Click**
  - 5V
  - 3.3V
  - SPI
  - I2C
  - UART
  - GPIO
  - PWM
  - AN
  - Functions as a non-inverting buck-boost voltage regulator.
  - MSRP – $15
  - MKROE-2807

- **MCP16331 Click**
  - 5V
  - 3.3V
  - SPI
  - I2C
  - UART
  - GPIO
  - PWM
  - AN
  - Integrated solution for system power delivery and Li-Po/Li-Ion battery charge management.
  - MSRP – $22
  - MKROE-2782

- **MCP73871 Click**
  - 5V
  - 3.3V
  - SPI
  - I2C
  - UART
  - GPIO
  - PWM
  - AN
  - MSRP – $18
  - MKROE-2858
**MIC24055 Click**

5V 3.3V SPI I2C

UART:GPIO:PWM:AN

Equipped with the MIC24055, high-efficiency buck regulator from Microchip.

MSRP – $29⁰⁰

Mikroe-2835

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**Qi Receiver Click**

5V 3.3V SPI I2C

UART:GPIO:PWM:AN

Utilizes the principles of the inductive coupling for the purpose of wireless power transfer.

MSRP – $18⁰⁰

Mikroe-2799

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**Solar energy Click**

5V 3.3V SPI I2C

UART:GPIO:PWM:AN

Uses TI’s BQ25570 - a nano-power high-efficiency boost charger and buck converter device.

MSRP – $27⁰⁰

Mikroe-2814

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**MIC33153 Click**

5V 3.3V SPI I2C

UART:GPIO:PWM:AN

A DC-DC adjustable step-down (buck) converter.

MSRP – $21⁰⁰

Mikroe-2887

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**VREG 2 Click**

5V 3.3V SPI I2C

UART:GPIO:PWM:AN

Uses the LM2596, a 3A, step down voltage regulator working at 150 kHz, from Texas Instruments.

MSRP – $21⁰⁰

Mikroe-3055
POWER MANAGEMENT

BATT-MAN Click

5V | 3.3V | SPI | I2C

UART | GPIO | PWM | AN

The LTC3586, a high-efficiency power manager with boost, buck-boost, and dual buck converters.

MSRP – $2700
MIKROE-2901

Charger 2 Click

5V | 3.3V | SPI | I2C

UART | GPIO | PWM | AN

The STBC08, an 800 mA standalone linear Li-Ion battery charger with thermal regulation.

MSRP – $1700
MIKROE-3049

MCP16331 INV Click

5V | 3.3V | SPI | I2C

UART | GPIO | PWM | AN

Works in an inverting configuration, provides a negative output voltage in respect to the GND.

MSRP – $2200
MIKROE-2917

LED Driver 4 Click

5V | 3.3V | SPI | I2C

UART | GPIO | PWM | AN

The TPS61160A, a white LED driver with PWM brightness control.

MSRP – $1500
MIKROE-3037

LED Driver 3 Click

5V | 3.3V | SPI | I2C

UART | GPIO | PWM | AN

The NCP5623B, a triple output RGB LED driver, controlled through the I2C protocol.

MSRP – $1500
MIKROE-2980
The LTC3115-2, a 40V, 2A synchronous buck-boost DC/DC converter from Linear Technology.

**MSRP – $270.00**
MIKROE-2983

The LTC3582, program- mable boost and in- verting DC/DC converter with OTP memory.

**MSRP – $210.00**
MIKROE-3124

The TPS65131, a positive and negative output DC/DC Converter, from Texas Instruments.

**MSRP – $290.00**
MIKROE-3123

The MAX17222 - a nanoPower synchronous boost converter with True Shutdown™ technology.

**MSRP – $110.00**
MIKROE-3035

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**Buck-Boost 2 Click**

5V | 3.3V | SPI | I2C

UART: GPIO: PWM: AN

The LTC3115-2, a 40V, 2A synchronous buck-boost DC/DC converter from Linear Technology.

**MSRP – $270.00**
MIKROE-2983

**Boost-INV Click**

5V | 3.3V | SPI | I2C

UART: GPIO: PWM: AN

The LTC3582, program- mable boost and in- verting DC/DC converter with OTP memory.

**MSRP – $210.00**
MIKROE-3124

**Boost-INV 2 Click**

5V | 3.3V | SPI | I2C

UART: GPIO: PWM: AN

The TPS65131, a positive and negative output DC/DC Converter, from Texas Instruments.

**MSRP – $290.00**
MIKROE-3123

**UPS Click**

5V | 3.3V | SPI | I2C

UART: GPIO: PWM: AN

The LTC3225, a 150mA supercapacitor charger from Linear Technology.

**MSRP – $250.00**
MIKROE-3001

**Nano Power Click**

5V | 3.3V | SPI | I2C

UART: GPIO: PWM: AN

The MAX17222 - a nanoPower synchronous boost converter with True Shutdown™ technology.

**MSRP – $110.00**
MIKROE-3035
BUCK Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Buck switching regulator. A wide input voltage range of up to 40V. Steps it down to 3.3V or 5V.

MSRP – $29.00
MIKROE-1592

Buck 2 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

A powerful step down DC-DC switching regulator. Input voltage range 4.5V-19V.

MSRP – $16.00
MIKROE-2858

Buck 3 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Uses the TPS568215, a 4.5V to 17V Input, 8A synchronous step-down SWIFT™ converter.

MSRP – $22.00
MIKROE-2971

BUCK 5 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

The MAX17506, a high efficiency, synchronous step-down DC/DC converter with internal compensation.

MSRP – $29.00
MIKROE-3100

BUCK 6 Click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

Uses the MAX17572, a step down (buck) DC-DC converter from Maxim Integrated.

MSRP – $18.00
MIKROE-2957
BUCK 7 Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- UART
- GPIO
- PWM
- AN

The MAX17504, a high efficiency, synchronous step-down DC-DC converter with internal compensation.

MSRP – $27.00
MIKROE-3094

Buck 8 Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- UART
- GPIO
- PWM
- AN

Uses the MAX17536, a high-efficiency, synchronous step-down DC-DC converter.

MSRP – $26.00
MIKROE-2997

Charger Click

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- UART
- GPIO
- PWM
- AN

Carries a battery charger controller and a battery charge monitor, along with a battery connector.

MSRP – $22.00
MIKROE-2033
RTC 6 Click

5V 3.3V SPI I2C
UART GPIO PWM AN
Carries MCP79410 real-time clock/calendar IC. 64 bytes of battery-backed SRAM.  
MSRP – $21.00
MIKROE-2063

TIMER Click

5V 3.3V SPI I2C
UART GPIO PWM AN
With DS1682 total elapsed time recorder from Maxim Integrated. ETC used with the ALARM pin.  
MSRP – $18.00
MIKROE-2333

PULSE Click

5V 3.3V SPI I2C
UART GPIO PWM AN
A pulse generator with precise frequency control. Features NE555 precision timer.  
MSRP – $25.00
MIKROE-2032

RTC 2 Click

5V 3.3V SPI I2C
UART GPIO PWM AN
With DS1307 serial real-time clock. It’s a full binary-coded decimal (BCD) clock/calendar.  
MSRP – $21.00
MIKROE-948

RTC 3 Click

5V 3.3V SPI I2C
UART GPIO PWM AN
Carries BQ32000, a real time clock with an integrated trickle charge circuit for automatic switchover.  
MSRP – $21.00
MIKROE-1839
RTC 4 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

Carries DS2417, a real-time clock/calendar with a 1-Wire MicroLAN interface. 16.3 kbits per second.

MSRP – $21.00
Mikroe-1891

RTC 5 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

Carries Microchip's MCP79510 real-time clock/calendar.

MSRP – $21.00
Mikroe-1990

PLL Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

The ICS501, a LOCO™ PLL clock multiplier, from Integrated Device Technology.

MSRP – $15.00
Mikroe-2993

Clock Gen 2 Click

5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN

The DS1087LU-266, a 3.3V spread-spectrum EconOscillator, from Maxim Integrated.

MSRP – $17.00
Mikroe-3076
mikroSDK – MikroElektronika SOFTWARE DEVELOPMENT KIT

mikroe.com/mikrosdk
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- Arduino
- BeagleBone Black
- Raspberry Pi
- Freedom
- Launchpad
- Discovery and more...

See them all at: www.mikroe.com/Click/shields
Using Click boards™ has many advantages but the 

time you will save

is by far the biggest one!
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