Click boards™
A new idea is just a click away


Pick from hundreds 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.
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<td>MSRP</td>
<td>$89**</td>
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<tr>
<td>UG95 3G UMTS/HSPA module. With SIM card slot, Audio/Mic jack, micro USB port.</td>
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<tr>
<td>With UMTS/HSPA cellular modem – the u-blox U201, from the SARA series.</td>
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<tr>
<td>It features the LARA-R211 multi-mode cellular module from u-blox.</td>
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<tr>
<td>It features the LARA-R204 multi-mode cellular module from u-blox.</td>
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</table>
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 3 click
5V 3.3V SPI I2C
UART GPIO PWM AN
It features NI-NA-B1 Bluetooth 4.2 module from u-blox.
MSRP – $39.00
MIKROE-2471

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

TIs’s CC2520, 2.4GHz ZigBee®/IEEE 802.15.4 RF transceiver.

Microchip’s MRF24J40MA 2.4 GHz IEEE 802.15.4 radio transceiver module.

It features NI-NA-B1 Bluetooth 4.2 module from u-blox.

With RN4020 Bluetooth 4.1 module. Can be set up both as a client or a server.
BLE P click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- With nRF8001 Bluetooth 4.0 peripheral device. Open source Android app available.
- MSRP – $25
  MIKROE-1597

Bluetooth click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- It features the RN-41 low power, class 1 Bluetooth radio module.
- MSRP – $39
  MIKROE-958

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.
- MSRP – $49
  MIKROE-2399

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
  MIKROE-2336

ccRF click
- 5V, 3.3V, SPI, I2C
- UART, GPIO, PWM, AN
- With CC2500 low-power 2.4 GHz RF transceiver and PCB trace antenna.
- MSRP – $22
  MIKROE-1435
**ccRF 2 click**

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

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

MSRP – $36<sup>00</sup>  
MIKROE-1716

**EnOcean click**

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

With TCM 310 transceiver - bidirectional gateway for EnOcean’s 868 MHz radio systems.

MSRP – $39<sup>00</sup>  
MIKROE-1908

**EnOcean 2 click**

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

With TCM 515Z transceiver, based on the 2.4 GHz IEEE 802.15.4 radio standard.

MSRP – $39<sup>00</sup>  
MIKROE-2521

**GNSS click**

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

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

MSRP – $46<sup>00</sup>  
MIKROE-1850

**GNSS 2 click**

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

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

MSRP – $39<sup>00</sup>  
MIKROE-1887
**WIRELESS CONNECTIVITY**

**GNSS 3 click**
5V 3.3V SPI I2C
UART GPIO PWM AN

Carries SIM33EALAGNSS module with an integrated antenna and an external antenna connector.

MSRP – $39<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
MIKROE-1714
GSM-GPS click

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

With SIM808, GSM/GPRS and GPS module. Two antenna connectors, SIM card slot, a micro USB connector.

MSRP – $85.00
MIKROE-2382

GSM click

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

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

MSRP – $49.00
MIKROE-1298

GSM 2 click

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

With Quectel’s M95 FA quad-band GSM/GPRS module. 85.6 kbps GPRS data transfer.

MSRP – $44.00
MIKROE-1375

GSM 3 click

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

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

MSRP – $57.00
MIKROE-1720

GSM/GNSS click

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

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

MSRP – $79.00
MIKROE-2439
WIRELESS CONNECTIVITY

GSM/GNSS 2 click

5V 3.3V SPI I2C
UART GPIO PWM AN
With SIM868 quad-band GSM/GPRS module. GPS/GNASS location tracking with GSM.

MSRP – $69.00
MIKROE-2440

IRF 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

IRF 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
UART
MSRP – $25.90
Mikroe-1195

LoRa RF click
5V
UART
3.3V
GPIO
MSRP – $54.00
Mikroe-1997

LoRa RF 2 Click
5V
UART
3.3V
GPIO
AN
MSRP – $54.00
Mikroe-2225

M-BUS RF click
5V
UART
3.3V
SPI
I2C
AN
MSRP – $54.00
Mikroe-2048

NFC click
5V
UART
3.3V
SPI
I2C
AN
MSRP – $34.00
Mikroe-2395

With TFDU4101 infrared transceiver module and MCP2120 infrared encoder/decoder.

With RN2483 LoRa Sub-GHz, 433/868 MHz European R&TTE Directive Assessed Radio Modem.

With RN2903 915 MHz Radio Modem compliant with regulations for use in the USA, CA, AU, NZ.

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

With near field communications controller PN7120 IC from NXP.
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 – $12.00
Mikroe-2462

NFC Tag click

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

With M24SM64 NFC/RFID tag IC with a dual interface and 8KB of high-reliability EEPROM built-in.

MSRP – $12.00
Mikroe-1726

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 – $19.00
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 – $19.00
Mikroe-1305

nRF T click

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

With nRF24L01P 2.4 GHz transceiver. 250 Kbps, 1 Mbps and 2 Mbps air data rates.
RFid click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

With CR95HF 13.56 MHz contactless RFid transceiver, and trace antenna.

MSRP – $29.00
MIKROE-1434

RN4678 click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

It carries RN4678 Bluetooth® 4.2 dual mode module from Microchip.

MSRP – $29.00
MIKROE-2548

RN4870 click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

It carries RN4870 Bluetooth® 4.2 low energy module from Microchip.

MSRP – $33.00
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 – $33.00
MIKROE-2544

SPIRIT click

5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN

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

MSRP – $39.00
MIKROE-2568
Wireless Connectivity

tRF click
5V 3.3V SPI I2C UART GPIO PWM AN
With Telit’s LE70-868—a 868 MHz transceiver module with embedded stack.
MSRP – $59.00
MIKROE-1535

WiFi 2 click
5V 3.3V SPI I2C UART GPIO PWM AN
With HLK-M30 module. Can be set up with either a static or dynamic IP address.
MSRP – $29.00
MIKROE-1768

WiFi 3 click
5V 3.3V SPI I2C UART GPIO PWM AN
With ESP8266 module. TCP/IP stack. Supports Wi-Fi Direct (p2p). 6 GPIO pins.
MSRP – $27.00
MIKROE-1769

WiFi 4 click
5V 3.3V SPI I2C UART GPIO PWM AN
With SPWF01SA standalone WiFi module. Built-in 2.45 GHz ISM band antenna.
MSRP – $49.00
MIKROE-1913

WiFi 5 click
5V 3.3V SPI I2C UART GPIO PWM AN
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

MIKROE-2043

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**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

MIKROE-2046

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**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

MIKROE-2542

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**WiFi PLUS click**

5V | 3.3V | SPI | I2C

UART | GPIO | PWM | AN

With MRF24WB-0MA 2.4GHz, IEEE std. 802.11 module and MCW1001 controller.

MSRP – $45

MIKROE-1135

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**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

MIKROE-1937
XBEE click

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

Xbee® and Zigbee-compliant XB-24CZ7P1S-004 module with a PCB antenna.

MSRP – $59.00
MIKROE-1589

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

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

ccRF 3 click

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

Carries the CC1120 high-performance RF transceiver for narrow-band systems from TI.

MSRP – $36.00
MIKROE-2389
Honey, I shrunk the GPS

Nano GPS click, carrying the world’s smallest GPS module with an integrated antenna
**SENSORS**

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 LSM6DS3TR 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 - $24
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 - $19
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 - $19
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 - $21
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 - $16
MIKROE-1830
Air quality 2 click

5V 3.3V SPI I2C
UART GPIO PWM AN

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

MSRP – $79
MIKROE-2529

RTD click

5V 3.3V SPI I2C
UART GPIO PWM AN

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

MSRP – $19
MIKROE-2815

Altitude click

5V 3.3V SPI I2C
UART GPIO PWM AN

MEMS pressure sensor MPL3115A2. Pressure/altitude (20-bit) and temp. (12-bit) data.

MSRP – $14
MIKROE-1489

Ambient click

5V 3.3V SPI I2C
UART GPIO PWM AN

With MLX75305 IC, CMOS integrated optical sensor. Converts ambient light intensity into voltage.

MSRP – $9
MIKROE-1800

Ambient 2 click

5V 3.3V SPI I2C
UART GPIO PWM AN

TI’s OPT3001 ambient light sensor. Measures the visible part of the light spectrum.

MSRP – $14
MIKROE-1903
Angle 3 click

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

With AK7451, a magnetic rotational angle sensor with 12-bit angle resolution.

MSRP – $18.00
MIKROE-2755

BAROMETER click

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

With AK7451, a magnetic rotational angle sensor with 12-bit angle resolution.

MSRP – $18.00
MIKROE-2755

Bi Hall click

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


MSRP – $15.00
MIKROE-1817

CO click

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


MSRP – $16.50
MIKROE-1626

Color click

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

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

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 – $16.00**
**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 – $17.00**
**MIKROE-2103**

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

It features LSM303DLHC ultra compact high performance e-compass module.

**MSRP – $25.00**
**MIKROE-1386**

**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 – $25.00**
**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 – $24.00**
**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 – $2400
MIKROE-1798

Diff pressure click

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

MPXV5010DP pressure sensor. Designed for comparing 2 pressure measurements.

MSRP – $5900
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 – $6900
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 – $3900
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 – $4900
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
Grid-EYE click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
8x8 thermal array sensor-detector that carries AMG8853 infrared array sensor.
MSRP – $79.00
MIKROE-2539

GYRO click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
L3GD20 3-axis digital gyroscope module - can measure angular rate and ambient temperature.
MSRP – $25.00
MIKROE-1379

Hall current click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
High precision current sensor with TLI4970-D050T4, a magnetic current sensor.
MSRP – $34.00
MIKROE-1578

HDC1000 click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
It’s a humidity [and temperature] measurement click carrying the HDC1000 sensor.
MSRP – $19.00
MIKROE-1797

Heart rate click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With Maxim’s MAX30100 integrated pulse oximetry and heart-rate sensor.
MSRP – $19.00
MIKROE-2000
Heart rate 3 click
5V  |  3.3V  |  SPI  |  I2C
UART: GPIO | PWM | AN
SFH7050 pulse oximeter and heart rate monitoring module, and AFE4404 IC for bio-sensing.
MSRP – $39.00
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 – $21.00
MIKROE-2510

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

Hydrogen click
5V  |  3.3V  |  SPI  |  I2C
UART: GPIO | PWM | AN
It carries MQ-8 sensor for hydrogen (H2). Sensor’s detection range 100-10000 ppm of H2.
MSRP – $15.00
MIKROE-1629

Illuminance click
5V  |  3.3V  |  SPI  |  I2C
UART: GPIO | PWM | AN
MSRP – $16.00
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
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
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
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
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
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 – $29.00
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. For short range inductive sensing.

MSRP – $20.00
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 – $35.00
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 – $18.00
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 – $17.90
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 – $24.00
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 – $24.00
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 – $17.00
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 – $15.00
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 – $15.00
MIKROE-1587
<table>
<thead>
<tr>
<th>Circuit Board</th>
<th>Description</th>
<th>MSRP</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LPS22HB click</strong></td>
<td>Used as a digital barometer. It carries the LPS22HB MEMS nano pressure sensor.</td>
<td>$15.00</td>
<td>MIKROE-2665</td>
</tr>
<tr>
<td><strong>LSM303AGR click</strong></td>
<td>Measures acceleration and magnetic field characteristics. Carries LSM303AGR module.</td>
<td>$18.00</td>
<td>MIKROE-2684</td>
</tr>
<tr>
<td><strong>LSM6DSL click</strong></td>
<td>Measures linear and angular velocity with six degrees of freedom. Carries LSM6DSL module.</td>
<td>$15.00</td>
<td>MIKROE-2731</td>
</tr>
<tr>
<td><strong>MAGNETO click</strong></td>
<td>Enables the design of non-contacting rotary position sensors with MLX90316 sensor IC.</td>
<td>$29.00</td>
<td>MIKROE-1938</td>
</tr>
<tr>
<td><strong>MAGNETO 2 click</strong></td>
<td>Carries AS5048A contactless magnetic angle position sensor that relies on the Hall Effect.</td>
<td>$36.00</td>
<td>MIKROE-1886</td>
</tr>
</tbody>
</table>
**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 – $79.00
MIKROE-2237

**Manometer 2 click**

5V 3.3V SPI I2C

UART GPIO PWM AN

With MS5525D-S0-SB001GS digital pressure sensor. 24-bit digital pressure and temp. value.

MSRP – $39.00
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 – $15.00
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 – $13.00
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 – $39.00
MIKROE-1577
Graceful movement. Quantified.

3D Motion click with 9-axis sensor fusion hub
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 – $42.00  
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 – $37.00  
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 – $49.00  
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 – $25.00  
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 – $69.00  
MIKROE-1880
**Pressure 3 click**
5V | 3.3V | SPI | I2C
---|---|---|---
UART | GPIO | PWM | AN

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

**Proximity click**
5V | 3.3V | SPI | I2C
---|---|---|---
UART | GPIO | PWM | AN

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

**Proximity 2 click**
5V | 3.3V | SPI | I2C
---|---|---|---
UART | GPIO | PWM | AN

With MAX440000, an IC that integrates an ambient light and a proximity sensor. Range 0.03-65.535 lux.

**REED click**
5V | 3.3V | SPI | I2C
---|---|---|---
UART | GPIO | PWM | AN

With a standard reed switch. Used in mechanical systems as proximity sensors.

**RF Meter click**
5V | 3.3V | SPI | I2C
---|---|---|---
UART | GPIO | PWM | AN

It’s an RF power measurement device. Frequency span 1 MHz-8 GHz, over 60 dB range.

**MSRP**
- Pressure 3 click: $20
- Proximity click: $17
- Proximity 2 click: $19
- REED click: $7
- RF Meter click: $44

**Mikroe-2293**
- Pressure 3 click
**Mikroe-1445**
- Proximity click
**Mikroe-1818**
- Proximity 2 click
**Mikroe-1998**
- REED click
**Mikroe-2034**
- RF Meter click
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 – $39[^00]
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 – $26[^00]
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 – $13[^00]
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 – $19[^00]
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 – $35[^00]
MIKROE-2064
Temp&Hum click

**5V** | **3.3V** | SPI | I2C

With HTS221 temp. and relative humidity sensor. Measurement accuracy is ±1°C in 0-60°C range.

MSRP – $16[^00]
MIKROE-1971

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THERMO click

**5V** | **3.3V** | SPI | I2C

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

MSRP – $29[^00]
MIKROE-1197

---

THERMO 2 click

**5V** | **3.3V** | SPI | I2C

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

MSRP – $15[^00]
MIKROE-1840

---

Thermo 3 click

**5V** | **3.3V** | SPI | I2C

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

MSRP – $9[^00]
MIKROE-1885

---

THERMO 4 click

**5V** | **3.3V** | SPI | I2C

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

MSRP – $9[^00]
MIKROE-2832
**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 – $11.00  
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 – $9.00  
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 – $24.00  
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 – $19.00  
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 – $35.00  
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
MIKROE-1834

TILT-n-SHAKE click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With MMA8491Q IC, a 3-axis digital accelerometer. Can function as a 45 ° tilt sensor.
MSRP – $19
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
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
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
MIKROE-2378

With RPI-1035, a 4-directional optical tilt sensor - left, right, backward, forward movement.

With MMA8491Q IC, a 3-axis digital accelerometer. Can function as a 45 ° tilt sensor.

With US5881 unipolar Hall-effect switch sensitive to the North Pole magnetic fields.

With ML8511 IC that is sensitive to UVA and UVB rays. Outputs either analog or digital signals.

Carries VEML6075 UVA and UVB light sensor. With a photodiode, amplifiers, analog/digital circuits.
UV 3 click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
An advanced ultraviolet (UV) light sensor with VEML6070 UVA light sensor.
MSRP – $9.00
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 – $18.00
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 – $9.00
MIKROE-2786

Weather click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
With BME280 integrated environmental unit. Detects humidity, pressure, and temperature.
MSRP – $22.00
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 – $16.00
MIKROE-2030
Thermo J click

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

It is a temperature measurement click board™, which uses a thermocouple type-J probe.

MSRP – $24.00
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 – $22.00
MIKROE-2818

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 – $26.00
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 – $25.00
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 – $17.00
MIKROE-2801
Alcohol click

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

Detected alcohol in concentrations from 0.04 to 4mg/l with MQ-3 Semiconductor sensor.

MSRP - $15.00
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
**CAN Isolator click**

- **5V / 3.3V / SPI / I2C**
- Provides isolated CAN communication. Data rates of up to 1 Mbps. Carries a DB 9-pin male connector.
- **MSRP – $39.00**
  MIKROE-2627

**CAN SPI click 3.3V**

- **5V / 3.3V / SPI / I2C**
- Adds CAN connectivity with SPI interface. Features SN65HVD230 CAN transceiver circuit.
- **MSRP – $21.00**
  MIKROE-986

**CAN SPI click 5V**

- **5V / 3.3V / SPI / I2C**
- Adds CAN connectivity with SPI interface. With MCP2551 CAN transceiver circuit.
- **MSRP – $21.00**
  MIKROE-988

**DALI Click**

- **5V / 3.3V / SPI / I2C**
- Provides Digital Lighting Interface. With two optocouplers, push button, screw terminal.
- **MSRP – $25.00**
  MIKROE-1297

**ETH Click**

- **5V / 3.3V / SPI / I2C**
- With ENC28J60, a 28-pin, 10BASE-T stand-alone Ethernet controller with an on-board MAC & PHY.
- **MSRP – $24.00**
  MIKROE-971
With W5500, a 48-pin, 10/100 BASE-TX stand-alone Ethernet controller. Standard RJ-45 connector.

ETH WIZ click
5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN
MSRP – $19.00
MIKROE-1718

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

EXPAND click
5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN
MSRP – $12.00
MIKROE-951

Expand 2 click
5V | 3.3V | SPI | I2C
UART: GPIO | PWM | AN
MSRP – $12.00
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 – $19.00
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 – $14.00
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 IS01540, 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
### Interface

<table>
<thead>
<tr>
<th>Board</th>
<th>Voltage</th>
<th>I/Os</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCP2003B click</td>
<td>5V, 3.3V</td>
<td>SPI, I2C</td>
<td>It’s a physical interface to automotive and industrial LIN systems with a bi-directional LIN transceiver.</td>
</tr>
<tr>
<td>MSRP – $18&lt;sup&gt;00&lt;/sup&gt;</td>
<td>MIKROE-2227</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCP2517FD click</td>
<td>5V, t, 3.3V</td>
<td>SPI, I2C</td>
<td>With MCP2517FD CAN FD controller and ATA6563 high-speed CAN transceiver.</td>
</tr>
<tr>
<td>MSRP – $25&lt;sup&gt;00&lt;/sup&gt;</td>
<td>MIKROE-2379</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS485 2 click</td>
<td>5V, 3.3V</td>
<td>SPI, I2C</td>
<td>Carries MAX3471 half-duplex transceiver for lithium battery-powered RS-485/RS-422 applications.</td>
</tr>
<tr>
<td>MSRP – $18&lt;sup&gt;00&lt;/sup&gt;</td>
<td>MIKROE-2700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCP2542 click</td>
<td>5V, 3.3V</td>
<td>SPI, I2C</td>
<td>Microchip’s CAN FD Transceiver with Wake-Up Pattern. Compliant with CAN 2.0 and CAN FD.</td>
</tr>
<tr>
<td>MSRP – $20&lt;sup&gt;00&lt;/sup&gt;</td>
<td>MIKROE-2299</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS485 click 3.3V</td>
<td>5V, 3.3V</td>
<td>SPI, I2C</td>
<td>Carries SN-65HVD12 half-duplex, RS-485 transceiver from Texas Instruments.</td>
</tr>
<tr>
<td>MSRP – $18&lt;sup&gt;00&lt;/sup&gt;</td>
<td>MIKROE-989</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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
With ADM2682EBRIZ, a 5 kV RMS signal and power isolated RS-485 transceiver.
MSRP – $49.00
MIKROE-2673

RS232 click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Adds RS232 connectivity with a standard RS232 DB9 port and a MAX3232 IC.
MSRP – $15.00
MIKROE-1582

USB I2C click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
With MCP2221 USB-to-UART/I2C converter. Full-speed USB (12 Mb/s), I2C up to 400 kHz clock rates.
MSRP – $13.90
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 – $13.90
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 – $39.00
MIKROE-2574
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 – $13⁹⁰
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 – $16⁰⁰
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 – $69⁶⁰
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 – $13⁹⁰
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 – $56⁰⁰
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
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
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 – $30<sup>00</sup>
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 – $34<sup>00</sup>
MIKROE-2520

4Dot-Matrix R click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Displays 4 char. of 5x7 dot size. With SL02016 module and MCP23017 I2C port expander.
MSRP – $59<sup>00</sup>
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 – $19<sup>00</sup>
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 – $29<sup>00</sup>
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
8x8 B click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
It features MAX7219 8-digit LED display driver module as well as 64 BLUE LEDs.
MSRP – $18.00
MIKROE-1307

8x8 G click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
It features MAX7219 8-digit LED display driver module as well as 64 GREEN LEDs.
MSRP – $15.00
MIKROE-1308

8x8 R click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
It features MAX7219 8-digit LED display driver module as well as 64 RED LEDs.
MSRP – $15.00
MIKROE-1295

8x8 Y click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
It features MAX7219 8-digit LED display driver module as well as 64 YELLOW LEDs.
MSRP – $15.00
MIKROE-1294

Matrix G click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Matrix text display with two green 5x7 matrices and two MAX7219 8-bit LED display drivers.
MSRP – $29.00
MIKROE-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 – $12.00
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 – $19.00
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 – $59.00
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 – $39.00
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 – $19.00
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\textsuperscript{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\textsuperscript{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\textsuperscript{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\textsuperscript{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\textsuperscript{00}
MIKROE-1851
Matrix R click

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

MSRP – $29.00
MIKROE-2245

Matrix RGB click

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

MSRP – $24.00
MIKROE-2239

OLED B click

With a 96 x 39px blue monochrome passive matrix OLED display and SSD1306 controller.

MSRP – $24.00
MIKROE-1650

OLED C click

With PSP27801 OLED display and SSD1351 OLED driver with controller. Various color support.

MSRP – $29.00
MIKROE-1585

OLED Switch click

With NKK Switch IS-C15ANP4 that combines a switch and a full color organic LED display.

MSRP – $99.00
MIKROE-2449
### OLED W click

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

Carries a 96x39px white monochrome passive matrix OLED display.

**MSRP – $24.00**

MikroE-1649

### OSD click

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

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**

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**

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**

For displaying characters on two 7 segment displays. RED emitting color.

**MSRP – $20.00**

MikroE-2840
<table>
<thead>
<tr>
<th><strong>HUMAN-MACHINE INTERFACE</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>2x2 Key click</strong></td>
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<tr>
<td>5V</td>
</tr>
<tr>
<td>UART</td>
</tr>
<tr>
<td>The click has a 4 button keypad. It allows multiple key presses and has a debounce circuit.</td>
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| MSRP – $9<sup>00</sup>
| 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<sup>00</sup>
| 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<sup>90</sup>
| 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<sup>90</sup>
| 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<sup>00</sup>
| MIKROE-2238               |

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**HUMAN-MACHINE INTERFACE**

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| MIKROE-2040               | MSRP – $9<sup>90</sup>
| MIKROE-1901               | MSRP – $18<sup>00</sup>
| MIKROE-2238               |
CapSense click


MSRP – $16.00
MIKROE-1446

COUNTER click

Counter click carries an LS7366R 32-bit quadrature counter.

MSRP – $25.00
MIKROE-1917

Fingerprint click

Solution for adding biometric security to your design.

MSRP – $55.00
MIKROE-1722

IR gesture click

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

MSRP – $16.00
MIKROE-2086

Joystick click

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

MSRP – $22.00
MIKROE-1506
Keylock click
- 5V
- 3.3V
- SPI
- I2C

Carries a processed sealed key lock mechanism that can be set in 3 different positions.

MSRP – $25.00
MIKROE-2584

ROTARY B click
- 5V
- 3.3V
- SPI
- I2C

With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 blue LEDs.

MSRP – $12.00
MIKROE-1824

ROTARY G click
- 5V
- 3.3V
- SPI
- I2C

With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 green LEDs.

MSRP – $12.00
MIKROE-1822

ROTARY O click
- 5V
- 3.3V
- SPI
- I2C

With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 orange LEDs.

MSRP – $12.00
MIKROE-2380

ROTARY R click
- 5V
- 3.3V
- SPI
- I2C

With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 red LEDs.

MSRP – $12.00
MIKROE-1823
ROTARY Y click

5V 3.3V SPI I2C

With a 15-pulse incremental rotary encoder with detents, surrounded by a ring of 16 yellow LEDs.

MSRP – $1200
MIKROE-1825

SpeakUp 2 click

5V 3.3V SPI I2C

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

MSRP – $3400
MIKROE-2375

Thumbstick click

5V 3.3V SPI I2C

A high precision input device with a dual axis, spring return and push-button enabled joystick.

MSRP – $2000
MIKROE-1627

Thumb wheel click

5V 3.3V SPI I2C

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

With NXP’s MPR121 proximity capacitive touch sensor controller. 7 plated holes for clamps.

MSRP – $900
MIKROE-2294
**HUMAN-MACHINE INTERFACE**

- **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 – $12.00
    - 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 – $16.00
    - MIKROE-2474

- **Touchpad click**
  - 5V, 3.3V, SPI, I2C
  - UART, GPIO, PWM, AN
  - Capacitive touch input device driven by Microchip’s MTCH6102 controller.
  - MSRP – $15.00
    - MIKROE-1995

- **Tamper click**
  - 5V, 3.3V, SPI, I2C
  - UART, GPIO, PWM, AN
  - Equipped with SDS001, a low profile side-actuated detect switch.
  - MSRP – $9.00
    - 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 – $15.00
    - MIKROE-2552
When you put it to work, it listens to what you’re saying, matches the sound to one of the pre-recorded commands, and triggers the specified action which the on-board MCU executes.

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

It listens and learns...

Using a simple interface on your computer, you can record a word or phrase (up to 5 seconds) and assign it an instruction. Repeat as many commands as you need.
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 – $8\text{00}
MIKROE-1200

EEPROM 2 click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With M95M02-DR DIP-8 socket EEPROM chip with 256 KB of memory from STMicroelectronics.
MSRP – $18\text{00}
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 – $14\text{00}
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 – $14\text{00}
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 – $14\text{00}
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 – $10
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 – $12
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 – $12
MIKROE-2374

FRAM 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 – $15
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 – $19
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.

**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.

**Secure click**

5V | 3.3V | SPI | I2C

UART:GPIO:PWM:AN

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

**Secure 2 click**

5V | 3.3V | SPI | I2C

UART:GPIO:PWM:AN

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

**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 – $9**

MIKROE-2733

**MSRP – $16**

MIKROE-924

**MSRP – $9**

MIKROE-2522

**MSRP – $9**

MIKROE-2760

**MSRP – $9**

MIKROE-2761
SRAM click

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

Provides 1 Mbit of additional SRAM memory, via Microchip’s 23LC1024.

MSRP – $15\textsuperscript{00}
MIKROE-1902

SQI FLASH click

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

Based on the SST-26VF064B, a 64 Mbit Serial Quad I/O flash device from Microchip.

MSRP – $13\textsuperscript{90}
MIKROE-2828
Opto click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
It features two VO2630 dual channel, high speed optocoupler modules.
MSRP – $21.00
MIKROE-1196

RELAY click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
With two G6D1AA-SI-5DC power PCB relay modules. Controls up to 5A, 250V AC/30V DC loads.
MSRP – $18.00
MIKROE-1370

Relay 2 click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Carries two LCA717 single-pole, OptoMOS® solid state relays.
MSRP – $26.00
MIKROE-1899

PROTO click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
10x11 prototyping area and additional power pads for creating custom electronics or Click boards™.
MSRP – $45.00
MIKROE-1507

FLICKER click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
TI’s NA556 dual precision timer and Omron’s G6D-ASI power PCB relay. ON/OFF 0.1–6 sec.
MSRP – $19.00
MIKROE-2481

It features two VO2630 dual channel, high speed optocoupler modules.
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
Brushless click

**5V**  
UART: GPIO, PWM, AN

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

Brushless 2 click

**5V**  
UART: GPIO, PWM, AN

It carries TI’s DRV10964 BLDC motor controller with an integrated output stage.  
**MSRP – $26**

Brushless 3 click

**5V**  
UART: GPIO, PWM, AN

With TI’s DRV10983 three-phase sensorless motor driver with integrated power MOSFETs.  
**MSRP – $19**

DC MOTOR click

**5V**  
UART: GPIO, PWM, AN

With TI’s DRV8833RT-YH-Bridge motor driver and TI’s 74HC4053 multiplexer.  
**MSRP – $18**

DC MOTOR 2 click

**5V**  
UART: GPIO, PWM, AN

With Toshiba’s TB6593F-NG driver IC for direct current motors. Motors’ supply voltage 2.5V-13V.  
**MSRP – $17**
<table>
<thead>
<tr>
<th>DC MOTOR 3 click</th>
<th>DC MOTOR 4 click</th>
<th>DC MOTOR 5 click</th>
<th>Fan click</th>
<th>Fan 2 click</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5V</strong></td>
<td><strong>3.3V</strong></td>
<td><strong>SPI</strong></td>
<td><strong>I2C</strong></td>
<td><strong>5V</strong></td>
</tr>
<tr>
<td><strong>UART</strong></td>
<td><strong>GPIO</strong></td>
<td><strong>PWM</strong></td>
<td><strong>AN</strong></td>
<td><strong>UART</strong></td>
</tr>
<tr>
<td>With Toshiba’s TB-6549FG full-bridge driver for direct current motors. Up to 3.5A with 30V.</td>
<td>With MAX14870 motor driver from Maxim Integrated. Motors’ voltage supply 4.5V-36V.</td>
<td>With TI's DRV8701 brushed DC motor full-bridge gate driver. Operating voltage supply 5.9V-45V.</td>
<td>With EMC2301 controller for powering and regulating the operation of 5V four-wire fans.</td>
<td>With MAX31760 precision fan–speed controller. Can control two fans at the same time.</td>
</tr>
<tr>
<td><strong>MSRP – $19</strong>&lt;sup&gt;90&lt;/sup&gt; MIKROE-2047</td>
<td><strong>MSRP – $15</strong>&lt;sup&gt;90&lt;/sup&gt; MIKROE-2221</td>
<td><strong>MSRP – $17</strong>&lt;sup&gt;90&lt;/sup&gt; MIKROE-2699</td>
<td><strong>MSRP – $9</strong>&lt;sup&gt;90&lt;/sup&gt; MIKROE-2004</td>
<td><strong>MSRP – $15</strong>&lt;sup&gt;90&lt;/sup&gt; MIKROE-2708</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 – $23.00
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
- UART
- GPIO
- PWM
- AN

MSRP – $19.00
MIKROE-2748

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

**Brushless 6 click**

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

MSRP – $27.00
MIKROE-2847

Designed to drive a three-phase sensorless, brushless motor. With AT-mega8A from Microchip.

**Fan 3 click**

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

MSRP – $17.00
MIKROE-2841

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

**Vibro Motor click**

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

MSRP – $12.00
MIKROE-2826

Features a compact size Eccentric Rotating Mass [ERM] motor, labeled as C1026B002F.
Carries MAX9744 stereo class D audio power amplifier from Maxim Integrated.

**MSRP – $21.00**
MIKROE-2779

Functions as an amplifier. With TDA7491LP 2x5-watt dual BTL class-D audio amplifier.

**MSRP – $19.00**
MIKROE-2477

A mono audio amplifier. With TI’s LM48100Q-Q1 Boomer™ Mono, 1.3W Audio Power Amplifier IC.

**MSRP – $14.00**
MIKROE-2368

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

**MSRP – $9.00**
MIKROE-945

With CMT-8540S-SMT magnetic buzzer transducer. The buzzer’s resonant frequency is 4 kHz.

**MSRP – $12.00**
MIKROE-2720
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 – $2990
MIKROE-1431

GainAmp click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
Carries LTC®6912 dual channel, low noise, digitally programmable gain amplifier (PGA).
MSRP – $1590
MIKROE-2555

Mic click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With SPQ0410HR5H-B surface mount silicon microphone with max. RF protection.
MSRP – $990
MIKROE-2563

MP3 click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With a stereo MP3 decoder VS1053. Multiple formats (MP3, MP1, MP2, MPEG4, etc.).
MSRP – $2190
MIKROE-946

Noise click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With noise detecting circuitry. Enables you to set a noise detection threshold.
MSRP – $2990
MIKROE-2371
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

AUDIO AND VOICE
**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 – $14.00

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 – $26.00

MIKROE-2680

---

**ADC click**

5V | 3.3V | SPI | I2C

UART, GPIO, PWM, AN

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

MSRP – $24.00

MIKROE-922

---

**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 – $24.00

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 – $22.00

MIKROE-1894
Ammeter click

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

With circuitry for measuring electric current (AC and DC). 0.1A-1A measurement range.

MSRP – $24.00
MIKROE-2377

C Meter click

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

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

MSRP – $9.00
MIKROE-2376

Comparator click

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

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

MSRP – $12.00
MIKROE-1915

DAC click

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

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

MSRP – $18.00
MIKROE-950

DAC 2 click

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

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

MSRP – $19.00
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**

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**

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**

Mikroe-2332

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 – $59**

Mikroe-2553

PAC1934 click

**5V** | **3.3V** | SPI | I2C

UART | GPIO | PWM | AN

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

**MSRP – $29**

Mikroe-2735
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 – $27.00
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 – $24.00
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 – $65.00
MIKROE-2879

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 – $18.00
MIKROE-2846

DIGI POT 4 click

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

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

MSRP – $21.00
MIKROE-2873
A digitally controlled quad potentiometer, with the resistance of 10KΩ. Features proprietary PIXI™ technology. Configurable 20-channel mixed-signal data converter. Features a mechanical slide action potentiometer.
**Boost click**

5V | 3.3V | SPI | I2C

Carries Microchip’s MIC2606, a 2MHz, PWM DC/DC boost switching regulator.

MSRP – $21.00
MIKROE-2780

**Boost 4 click**

5V | 3.3V | SPI | I2C

Carries TI’s TPS61230A, a high efficiency fully integrated synchronous boost converter.

MSRP – $17.00
MIKROE-2757

**BUCK click**

5V | 3.3V | SPI | I2C

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

MSRP – $28.00
MIKROE-1592

**Charger click**

5V | 3.3V | SPI | I2C

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

MSRP – $22.00
MIKROE-2033

**LED driver click**

5V | 3.3V | SPI | I2C

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 - $26.00
MIKROE-2548

MCP73213 click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries MCP73213 dual-cell Li-Ion/Li-Polymer battery charge management controller.
MSRP - $18.00
MIKROE-2575

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 - $29.00
MIKROE-2765

MIC24045 click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries MIC24045 5A synchronous step-down regulator. Input range 4.5V-19V.
MSRP - $13.00
MIKROE-2574

VREG click
5V 3.3V SPI I2C
UART GPIO PWM AN
Digitally controlled DC voltage regulator. Based on the well-known LM317 circuit.
MSRP - $24.00
MIKROE-2443
**Buck-Boost click**

5V  3.3V  SPI  I2C

UART: GPIO: PWM: AN

Features LTC3129-1, a buck-boost DC/DC conversion integrated circuit.

**Charger 5 click**

5V  3.3V  SPI  I2C

UART: GPIO: PWM: AN

Designed to charge Lithium-Ion and Lithium-Polymer batteries.

**LED driver 2 click**

5V  3.3V  SPI  I2C

UART: GPIO: PWM: AN

Carries the MCP1643 - LED constant current regulator, made by Microchip.

**MCP16331 click**

5V  3.3V  SPI  I2C

UART: GPIO: PWM: AN

Functions as a non-inverting buck-boost voltage regulator.

**MCP73871 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 – $20^{00}
MIKROE-2806

MSRP – $16^{00}
MIKROE-2848

MSRP – $15^{00}
MIKROE-2807

MSRP – $22^{00}
MIKROE-2762

MSRP – $16^{00}
MIKROE-2858
POWER MANAGEMENT

**MIC24055 click**

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

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

**MSRP – $29.00**

**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 – $18.00**

**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 – $27.00**
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

Skywire™ click

5V 3.3V SPI I2C
UART GPIO PWM AN

Adapter click, which hosts NimbeLink/Skywire™ cellular modems [using stacking headers].

MSRP – $19.00
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 – $6.50
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 – $9.00
MIKROE-2100
A pulse generator with precise frequency control. Features NE555 precision timer.

**MSRP – $25.00**
Mikroe-2032

With DS1307 serial real-time clock. It’s a full binary-coded decimal (BCD) clock/calendar.

**MSRP – $21.00**
Mikroe-2032

Carries BQ32000, a real time clock with an integrated trickle charge circuit for automatic switchover.

**MSRP – $21.00**
Mikroe-2032

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

**MSRP – $21.00**
Mikroe-2032

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

**MSRP – $21.00**
Mikroe-2032
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
- Launchpad
- Discovery and more...

See them all at: www.mikroe.com/click/shields
mikroBUS™ is a simple but effective pinout standard containing all the necessary pins to connect all the different Click boards™. There’s also a range of mikroBUS™ shields that bring Click board connectivity to all of today’s most popular development platforms [Arduino, Raspberry Pi, BeagleBone, Freedom, Discovery, Micro .NET and more].

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AN</td>
<td>Analog</td>
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<tr>
<td>RST</td>
<td>Reset</td>
</tr>
<tr>
<td>CS</td>
<td>SPI Chip Select</td>
</tr>
<tr>
<td>SCK</td>
<td>SPI Clock</td>
</tr>
<tr>
<td>MISO</td>
<td>SPI Master Input Slave Output</td>
</tr>
<tr>
<td>MOSI</td>
<td>SPI Master Output Slave Input</td>
</tr>
<tr>
<td>+3.3V</td>
<td>VCC-3.3V power</td>
</tr>
<tr>
<td>GND</td>
<td>Reference Ground</td>
</tr>
<tr>
<td>PWM</td>
<td>PWM output</td>
</tr>
<tr>
<td>INT</td>
<td>Hardware Interrupt</td>
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<tr>
<td>RX</td>
<td>UART Receive</td>
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<tr>
<td>TX</td>
<td>UART Transmit</td>
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<tr>
<td>SCL</td>
<td>I²C Clock</td>
</tr>
<tr>
<td>SDA</td>
<td>I²C Data</td>
</tr>
<tr>
<td>+5V</td>
<td>VCC-5V power</td>
</tr>
<tr>
<td>GND</td>
<td>Reference Ground</td>
</tr>
</tbody>
</table>
Using Click boards™ has many advantages but the time you will save is by far the biggest one!
MEASURE AND
QUANTIFY
THE WORLD
AROUND YOU!
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