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.
UG95 3G UMTS/HSPA module. With SIM card slot, Audio/Mic jack, micro USB port.

**MSRP – $89**

Mikroe-2296

---

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

**MSRP – $99**

Mikroe-2244

---

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

**MSRP – $115**

Mikroe-2527

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It features the LARA-R204 multi-mode cellular module from u-blox.

**MSRP – $115**

Mikroe-2535
**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[^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[^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[^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[^1715]

**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[^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.

**MSRP – $25.00**

**MIKROE-1597**

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**Bluetooth Click**

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

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

**MSRP – $39.00**

**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 – $49.00**

**MIKROE-2399**

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**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 – $22.00**

**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 – $36.00**

**MIKROE-1716**
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\text{\textcurrency}^{00}
MIKROE-2389

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\text{\textcurrency}^{00}
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\text{\textcurrency}^{00}
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\text{\textcurrency}^{00}
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\text{\textcurrency}^{00}
MIKROE-1887
WIRELESS CONNECTIVITY

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 – $39.00
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 – $44.00
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 – $41.00
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 – $49.00
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 – $44.00
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, and 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
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 TS0P38338 IR 38 kHz receiver module as well as QEE113 IR emitting diode.
MSRP – $9.00
MIKROE-1377

With SIM868 quad-band GSM/GPRS module. GPS/GNSS location tracking with GSM.
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
**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 – $12.00**
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 – $12.00**
MIKROE-2462

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**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

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**nRF S 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.

**MSRP – $19.00**
MIKROE-1836

---

**nRF T 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 – $16.00**
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 – $29.00
MIKROE-1434

NFC Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With near field communications controller PN7120 IC from NXP.
MSRP – $34.00
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 – $29.00
MIKROE-2545

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
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
**Wireless Connectivity**

**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

**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-2048

**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

**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
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
MIKROE-1937
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-2338

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
<table>
<thead>
<tr>
<th>Module</th>
<th>Pinouts</th>
<th>MSRP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WiFi NINA Click</td>
<td>5V 3.3V SPI I2C</td>
<td>$45.00</td>
<td>A standalone WiFi module, with the state-of-the-art NINA-W132 module from u-blox.</td>
</tr>
<tr>
<td>MiWi Click</td>
<td>5V 3.3V SPI I2C</td>
<td>$17.00</td>
<td>A subgigahertz radio transceiver which offers a reliable FSK or OOK communication solution.</td>
</tr>
<tr>
<td>MiWi 2 Click</td>
<td>5V 3.3V SPI I2C</td>
<td>$17.00</td>
<td>A subgigahertz radio transceiver which offers a reliable FSK or OOK communication solution.</td>
</tr>
<tr>
<td>M-BUS RF Click</td>
<td>5V 3.3V SPI I2C</td>
<td>$54.00</td>
<td>With ME70-169 RF wireless module. Unlicensed ISM frequency band 169.400-169.475 MHz.</td>
</tr>
<tr>
<td>SPIRIT Click</td>
<td>5V 3.3V SPI I2C</td>
<td>$39.00</td>
<td>With SP1ML 868MHz ultra low-power RF module. Memory: 16 kB RAM and 128 kB Flash.</td>
</tr>
</tbody>
</table>
**XBEE Click**

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

Xbee® and Zig-bee-compliant XB-24C7P1S-004 module with a PCB antenna.

MSRP – $65<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
Mikroe-2388

**LTE IoT Click**

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

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

MSRP – $79<sup>00</sup>
Mikroe-3072
LTE IoT 2 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Allows connection to the LTE networks, featuring Quectel BG96 LTE module.

MSRP – $69.00
MIKROE-3144

SigFox Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Carries the SN10-11, a fully integrated Sigfox™ certified module by InnoComm.

MSRP – $25.00
MIKROE-2534

SigFox 2 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Carries the SN10-12, a fully integrated Sigfox™ certified module by InnoComm.

MSRP – $25.00
MIKROE-3039

SigFox 3 Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Carries the SN10-13, a fully integrated Sigfox™ certified module by InnoComm.

MSRP – $25.00
MIKROE-3163

NB IoT Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Allows LTE Cat NB1 connectivity by utilizing Quectel BC95-G.

MSRP – $52.00
MIKROE-3294
<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Code</th>
<th>MSRP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GeoMagnetic Click</td>
<td>MIKROE-2935</td>
<td>$15.00</td>
<td>Measures the geomagnetic field in three perpendicular axes. The onboard sensor uses FlipCore from Bosch.</td>
</tr>
<tr>
<td>IR Grid Click</td>
<td>MIKROE-2622</td>
<td>$69.00</td>
<td>Equipped with the MLX90621BAD, a 16x4 IR array sensor, from Melexis.</td>
</tr>
<tr>
<td>Moisture Click</td>
<td>MIKROE-3084</td>
<td>$19.00</td>
<td>FDC2112 IC, a very precise 12bit capacitance to digital converter, from Texas Instruments.</td>
</tr>
<tr>
<td>Opto Encoder Click</td>
<td>MIKROE-2549</td>
<td>$9.00</td>
<td>Uses the TCUT1600X01, a tall dome dual channel transmissive optical sensor from Vishay.</td>
</tr>
<tr>
<td>RTD Click</td>
<td>MIKROE-2815</td>
<td>$19.00</td>
<td>It is based on MAX31865 resistance to digital converter optimized for RTDs.</td>
</tr>
</tbody>
</table>
10DOF Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With BN0055, 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 BM160 low power IMU. For precise acceleration and gyroscopic measurement.
MSRP – $24.00
MIKROE-2337
<table>
<thead>
<tr>
<th>Sensor</th>
<th>Description</th>
<th>MSRP</th>
<th>Code</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>9DOF Click</td>
<td>LSM9DS1 inertial measurement module - 3D accelerometer, gyroscope and magnetometer.</td>
<td>$24.00</td>
<td>MIKROE-1941</td>
<td>5V</td>
</tr>
<tr>
<td>Accel Click</td>
<td>With ADXL345 3-axis accelerometer. 13-bit measurement, embedded FIFO technologies.</td>
<td>$19.00</td>
<td>MIKROE-1194</td>
<td>5V</td>
</tr>
<tr>
<td>Accel 2 Click</td>
<td>LIS30SH IC 3-axis accelerometer. Embedded FIFO buffer and 2 programmable state machines.</td>
<td>$19.00</td>
<td>MIKROE-1905</td>
<td>5V</td>
</tr>
<tr>
<td>Accel 3 Click</td>
<td>H3LIS331DL 3-axis linear accelerometer. Dynamically selectable scales ±100g/±200g/±400g.</td>
<td>$21.00</td>
<td>MIKROE-2102</td>
<td>5V</td>
</tr>
<tr>
<td>Air quality Click</td>
<td>MQ-135 sensor for detecting gases - ammonia, nitrogen oxides, benzene, smoke, CO2.</td>
<td>$16.50</td>
<td>MIKROE-1630</td>
<td>5V</td>
</tr>
</tbody>
</table>
iAQ-Core that measures VDC levels and provides CO2 equivalent and TVOC equivalent predictions.

**Air quality 2 Click**
- MSRP – $79.00
- MIKROE-2529

**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-2896

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 100-10000 ppm of H2.
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


MSRP – $15.00
MIKROE-1817

Bi Hall Click

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

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

MSRP – $12.00
MIKROE-1646

CO Click

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


MSRP – $16.00
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
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
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
MIKROE-1388

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
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
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 – $24.00
MIKROE-1798

Diff pressure Click
5V 3.3V SPI I2C
UART GPIO PWM AN
MPXV5010DP pressure sensor. Designed for comparing 2 pressure measurements.
MSRP – $59.00
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 – $69.00
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 – $39.00
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 – $49.00
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-2065
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-2000

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 oximetry 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

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 – $32.00
MIKROE-3012

Heart Rate 7 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
The VEMD8080 photo-sensor. A high-speed PD element, with sensitivity in the visible light spectrum.
MSRP – $23.00
MIKROE-2998

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 GP2Y0A60SZ0F 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 – $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.
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**

It’s a proximity sensor carrying VL6180X IC. Also works as an ambient light sensor.

**MSRP** – $24<br><br>**MIKROE-1897**

---

**LightRanger 2 Click**

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

With VL53L0X IC, the world’s smallest Time-of-Flight ranging and gesture detector sensor.

**MSRP** – $24<br><br>**MIKROE-2509**

---

**LIN HALL Click**

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

Carries MLX90242 linear Hall sensor IC. Measures magnet’s strength and distance.

**MSRP** – $17<br><br>**MIKROE-1848**

---

**Line Follower Click**

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

With five QRE1113 miniature reflective object sensors. Used for line following robots and cars.

**MSRP** – $15<br><br>**MIKROE-1999**

---

**LPG Click**

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

With MQ-5 sensor for detecting liquefied petroleum gas leakage. Detection range 200-10000 ppm.

**MSRP** – $15<br><br>**MIKROE-1587**
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-2665

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-1886

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
<table>
<thead>
<tr>
<th>Sensor</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>Manometer Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
<tr>
<td>Manometer 2 Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
<tr>
<td>Methane Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
<tr>
<td>MOTION Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
<tr>
<td>MPU IMU Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
</tbody>
</table>

Carries a piezoresistive silicon pressure sensor with extremely high accuracy (±0.25% FSS BFSL).

Carries a MQ-4 sensor for methane (CH4). Detection range 200-10000 ppm of CH4.

It’s a motion detector sensitive only to live bodies with PIR500B, a pyroelectric sensor.

Carries MPU-6000 integrated 6-axis motion tracking device and a DMP (Digital Motion Processor).

**Manometer Click**
- MSRP – $79[^MSRP-2237]
- MIKROE-2237

**Manometer 2 Click**
- MSRP – $39[^MSRP-2550]
- MIKROE-2550

**Methane Click**
- MSRP – $15[^MSRP-1628]
- MIKROE-1628

**MOTION Click**
- MSRP – $13[^MSRP-1589]
- MIKROE-1589

**MPU IMU Click**
- MSRP – $39[^MSRP-1577]
- MIKROE-1577

[^MSRP-2237]: MSRP – $79
[^MSRP-2550]: MSRP – $39
[^MSRP-1628]: MSRP – $15
[^MSRP-1589]: MSRP – $13
[^MSRP-1577]: MSRP – $39
<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Voltage</th>
<th>Power</th>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectral Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI, I2C</td>
<td>Uses the AS7261, an XYZ chromatic white color sensor + NIR with electronic shutter and smart interface.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UART, GPIO, PWM, AN</td>
<td>MSRP – $26&lt;sup&gt;00&lt;/sup&gt; MIKROE-2972</td>
</tr>
<tr>
<td>Spectral 2 Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI, I2C</td>
<td>Uses the AS7262, 6 channel visible spectral ID device with electronic shutter and smart Interface.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UART, GPIO, PWM, AN</td>
<td>MSRP – $26&lt;sup&gt;00&lt;/sup&gt; MIKROE-2973</td>
</tr>
<tr>
<td>Spectral 3 Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI, I2C</td>
<td>Uses the AS7263, a 6 channel NIR Spectral ID device with electronic shutter and smart Interface.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UART, GPIO, PWM, AN</td>
<td>MSRP – $26&lt;sup&gt;00&lt;/sup&gt; MIKROE-2961</td>
</tr>
<tr>
<td>IR Sense 2 Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI, I2C</td>
<td>Uses the AK9752, an ultra-small infrared sensor IC, with an I2C interface, from AKM.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UART, GPIO, PWM, AN</td>
<td>MSRP – $21&lt;sup&gt;00&lt;/sup&gt; MIKROE-2966</td>
</tr>
<tr>
<td>Barcode Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI, I2C</td>
<td>The LV3296, a compact integrated barcode scanner from Rakinda company.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UART, GPIO, PWM, AN</td>
<td>MSRP – $179&lt;sup&gt;00&lt;/sup&gt; MIKROE-2913</td>
</tr>
</tbody>
</table>
**Sensors**

**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-2787

---

**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 LP331AP 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.
MSRP – $20.00
MIKROE-2293

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.
MSRP – $17.00
MIKROE-1448

Proximity 2 Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
With MAX44000, an IC that integrates an ambient light and a proximity sensor. Range 0.03-65.535 lux.
MSRP – $19.00
MIKROE-1818

REED Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
With a standard reed switch. Used in mechanical systems as proximity sensors.
MSRP – $7.00
MIKROE-1998

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 – $44.00
MIKROE-2034
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<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
MIKROE-2084
Altitude Click  
5V  |  3.3V  | SPI  | I2C  
UART: GPIO | PWM : AN  
MSRP – $14.50  
MKROE-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 – $29.00  
MKROE-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 – $15.00  
MKROE-1846

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 – $9.00  
MKROE-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 – $9.00  
MKROE-2632

With DS1825, a digital thermometer IC with a unique 64-bit address. −10°C to 85°C, ±0.5°C accuracy.
**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-2769

**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 – $12.90 MIKROE-1834

TILTnSHAKE 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 – $19.00 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-1847

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 – $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**

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

MSRP – $15\textsuperscript{15}

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\textsuperscript{15}

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\textsuperscript{15}

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\textsuperscript{15}

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\textsuperscript{15}

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.

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.

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.

Proximity 6 Click
5V | 3.3V | SPI | I2C
UART: GPIO: PWM: AN
Uses the ADUX1020, a photometric sensor for gesture and proximity detection.

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.
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

SENSORS
Magneto 5 Click

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

Features the MEMSIC MMC34160PJ, a 3-axis magnetic sensor IC.

MSRP – $150
MIKROE-3050

Color 6 Click

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

Features the AS73211, an XYZ true color sensor from AMS.

MSRP – $320
MIKROE-3061

Color 7 Click

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

Features the TCS3472 color light to digital converter with IR filter, from AMS.

MSRP – $160
MIKROE-3062

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 – $90
MIKROE-1890

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 – $140
MIKROE-1903
The BMA280, a 14bit triaxial acceleration sensor with intelligent on-chip motion triggered interrupt controller.

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

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

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

**Accel 6 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

MSRP – $17.00  
Mikroe-3075

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

MSRP – $15.00  
Mikroe-3030

**Pressure 4 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

MSRP – $18.00  
Mikroe-3020

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

MSRP – $52.00  
Mikroe-3097

**NO2 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

MSRP – $52.00  
Mikroe-3098
The ADPD105, a highly configurable photometric front end (AFE) device from Analog Devices.

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

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

Uses the MLX90632 FIR sensor from Mel-exis as the contactless temperature sensor.

**Gaussmeter Click**

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

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

MSRP – $19.00
MIKROE-3099

**Oximeter Click**

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

The ADPD105, a highly configurable photometric front end (AFE) device from Analog Devices.

MSRP – $39.00
MIKROE-3102

**LightRanger 3 Click**

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

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

MSRP – $24.00
MIKROE-3103

**Color 5 Click**

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

Uses the P12347-01CT, from Hamamatsu company.

MSRP – $16.00
MIKROE-3107

**IrThermo 3 Click**

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

Uses the MLX90632 FIR sensor from Mel-exis as the contactless temperature sensor.

MSRP – $27.00
MIKROE-3121
With the AEAT-8800-Q24, an integrated 10 to 16-bit programmable angular magnetic encoder.

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

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

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

**Angle 4 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

**NDIR CO2 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

**Hall Current 3 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

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

**LightRanger 4 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

MSRP – $26.00  
Mikroe-3130

MSRP – $149.00  
Mikroe-3134

MSRP – $19.00  
Mikroe-3118

MSRP – $19.00  
Mikroe-3149

MSRP – $24.00  
Mikroe-3176

**Mikroe-3130**
- MSRP – $26.00
- MIKROE-3130

**Mikroe-3118**
- MSRP – $19.00
- MIKROE-3118

**Mikroe-3134**
- MSRP – $149.00
- MIKROE-3134

**Mikroe-3149**
- MSRP – $19.00
- MIKROE-3149

**Mikroe-3176**
- MSRP – $24.00
- MIKROE-3176
Load cell Click

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

With the HX711, a 24bit analog to digital converter (ADC), for weight scale applications.

MSRP – $12\textsuperscript{00}
MIKROE-3188

Microwave 2 Click

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

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

MSRP – $55\textsuperscript{00}
MIKROE-3187

3D Hall 2 Click

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

Measures the magnetic field in three perpendicular axes. With the TLV493D-A1BG, a 3D magnetic sensor.

MSRP – $15\textsuperscript{00}
MIKROE-3190

IR Grid 2 Click

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

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

MSRP – $75\textsuperscript{00}
MIKROE-3194

CO 2 Click

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

With the SPEC amperometric, 3SP CO 1000 gas sensor which electrochemically reacts with the [CO].

MSRP – $52\textsuperscript{00}
MIKROE-3196
With the monolithic vacuum sensor the MPXV6115V, it measures pressure values down to -115kPa.

Uses the BH1721FVC, a 16-bit digital light sensor with the I2C serial interface.

Carries the IIS2MDC-TR, a low power 3D magnetic sensor.

Features the ROHM’s BH1749NUC, an integrated color sensor IC.
ATA6570 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Uses the ATA6570, a standalone high speed CAN transceiver IC from Microchip.
MSRP – $23.00
MIKROE-2900

DALI 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
It is used for interfacing with the DALI network, and as a compliant with the DALI-2 physical layer requirements.
MSRP – $25.00
MIKROE-2672

iButton™ Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Comes with Maxim’s DS1990A, a serial number iButton™ device with a unique 64-bit serial number.
MSRP – $35.00
MIKROE-3045

USB UART 3 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
The CP2102N, a highly integrated USB to UART interface, from Silicon Labs.
MSRP – $15.00
MIKROE-3063

RS232 2 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
The MAX3237E, a 3V to 5.5V multichannel RS232, 1 Mbit/s line driver/receiver from Texas Instruments.
MSRP – $15.00
MIKROE-2897
**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
UART GPIO PWM AN

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

MSRP – $39<sup>00</sup>
MIKROE-2627

**CAN SPI Click 3.3V**

5V 3.3V SPI I2C
UART GPIO PWM AN

Adds CAN connectivity with SPI interface. Features SN65HVD230 CAN transceiver circuit.

MSRP – $21<sup>00</sup>
MIKROE-986

**CAN SPI Click 5V**

5V 3.3V SPI I2C
UART GPIO PWM AN

Adds CAN connectivity with SPI interface. With MCP2551 CAN transceiver circuit.

MSRP – $21<sup>00</sup>
MIKROE-988

**DALI Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

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

MSRP – $25<sup>00</sup>
MIKROE-1297

**ETH Click**

5V 3.3V SPI I2C
UART GPIO PWM AN

With ENC28J60, a 28-pin, 10BASE-T stand-alone Ethernet controller with an on-board MAC & PHY.

MSRP – $24<sup>00</sup>
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

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

**Expand 3 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

MSRP – $19.00
Mikroe-1874

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

**EXPAND 4 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

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 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.

MCP2517FD Click
5V 3.3V SPI I2C
UART GPIO PWM AN
With MCP2517FD CAN FD controller and ATA6563 high-speed CAN transceiver.

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.

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.

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<sup>00</sup> MIKROE-2299
MSRP – $20<sup>00</sup> MIKROE-989
MSRP – $18<sup>00</sup> MIKROE-2227
MSRP – $25<sup>00</sup> MIKROE-2379
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 UART GPIO
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
<table>
<thead>
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<th>Interface</th>
<th>5V</th>
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<th>SPI</th>
<th>I2C</th>
<th>UART</th>
<th>GPIO</th>
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<th>AN</th>
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<td>RS485 Isolator Click</td>
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<tr>
<td>RS232 Click</td>
<td>5V</td>
<td>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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<tr>
<td>USB I2C Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
<tr>
<td>USB SPI Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
<tr>
<td>USB UART 2 Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
<td>UART</td>
<td>GPIO</td>
<td>PWM</td>
<td>AN</td>
</tr>
</tbody>
</table>

With ADM2682EBRIZ, a 5 kV RMS signal and power isolated RS-485 transceiver. MSRP – $49.00

Adds RS232 connectivity with a standard RS232 DB9 port and a MAX3232 IC. MSRP – $15.00

With MCP2221 USB-to-UART/I2C converter. Full-speed USB (12 Mb/s), I2C up to 400 kHz clock rates. MSRP – $13.00

Microchip’s MCP2210 USB-to-SPI protocol converter with GPIO as well as USB MINI B connector. MSRP – $13.00

Provides USB isolation and carries the AD-UM4160BRWZ USB port isolator. MSRP – $39.00
Adds serial UART communication via USB cable. With FT232RL USB-to-UART interface module.

MSRP – $13.90
MIKROE-1203

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

MSRP – $16.00
MIKROE-2872

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

MSRP – $6.90
MIKROE-2796

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

MSRP – $13.90
MIKROE-2810

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

MSRP – $5.60
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

PWM 2 Click

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

With the LT8500, a 48-Channel LED PWM generator with 12-Bit res. and 50MHz serial interface.

MSRP – $19.00
MIKROE-3148

LLC-I2C Click

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

Used as the level converter for logic signals. It is perfectly suited for the bi-directional I2C communication.

MSRP – $9.00
MIKROE-3276

LLC-SPI Click

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

Used as the level converter for logic signals. It is perfectly suited for SPI communication.

MSRP – $9.00
MIKROE-3298
UART 1-Wire Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Designed to convert standard UART or RS232 signals into 1-Wire® signals.

MSRP – $22.00
MIKROE-3340

4D - display Click

5V 3.3V SPI I2C
UART GPIO PWM AN

Offers a mikroBUS™ interface for controlling 4D Systems gen4 Series intelligent Display Modules.

MSRP – $9.00
MIKROE-3044

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
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 – $8.00
Mikroe-2880

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 – $34.00
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 – $59.00
Mikroe-2708

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 – $19.00
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 – $29.00
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.

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
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 24-pin ribbon cable.
MSRP – $59.00
MIKROE-2658

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

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
**LED Flash Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C
- **Description:** Functions as a high power LED flash, and carries the CAT3224 flash LED driver.
- **MSRP:** $34.00

**LED Flash 2 Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C
- **Description:** It is a powerful flash/torch Click, featuring the MIC2870 from Microchip.
- **MSRP:** $19.00

**Led ring R Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C
- **Description:** With a ring of 32 red LEDs driven by four 74HC595 serial-in, parallel-out shift registers.
- **MSRP:** $16.00

**AlphaNum R Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C
- **Description:** With a dual character red LED 14-segment display and two TLC5926 16-bit shift registers.
- **MSRP:** $15.00

**AlphaNum G Click**

- **Power Supply:** 5V, 3.3V
- **Interfaces:** SPI, I2C
- **Description:** With a dual character green LED 14-segment display and two TLC5926 16-bit shift registers.
- **MSRP:** $15.00
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<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
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<sup>00</sup>
Mikroe-1585

LCD mini Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN

Displays 2x16 monochrome characters on an LMB162XFW LCD display.

MSRP – $19<sup>00</sup>
Mikroe-2453
### DISPLAY

**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

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**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-1366

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**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

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**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

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**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
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

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

BarGraph 3 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Uses a single 74HC595 IC, a tri-state, serial-in, parallel-out, 8-bit shift-register with output latch.
MSRP – $15.00
MIKROE-3264
Rotary Encoder Clicks

**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 – $12[^1]
Mikroe-1825

**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.

MSRP – $12[^1]
Mikroe-1824

**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.

MSRP – $12[^1]
Mikroe-1822

**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.

MSRP – $12[^1]
Mikroe-2380

**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 – $12[^1]
Mikroe-1823

[^1]: MSRP – Manufacturer’s Suggested Retail Price
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
2x2 Key Click

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

MSRP – $9.00
Mikroe-2152

4x4 Key Click

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

MSRP – $11.00
Mikroe-1889

Button G Click

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

MSRP – $9.00
Mikroe-2040

Button R Click

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

MSRP – $9.00
Mikroe-1901

Cap Extend Click

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

MSRP – $18.00
Mikroe-2238
**Tamper Click**

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

Equipment 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

**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 – $29.00  
Mikroe-2368

**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 – $9.00  
Mikroe-2294

**Keylock Click**

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

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

MSRP – $25.00  
Mikroe-2284
HUMAN-MACHINE INTERFACE

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

Thumbstick Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
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
UART  GPIO  PWM  AN
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
UART  GPIO  PWM  AN
A capacitive touch sensing button, integrated on a Click board™.
MSRP – $16.00
Mikroe-2888

Cap Touch 2 Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
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-2965**
**Button Y Click**
5V 3.3V SPI I2C UART GPIO PWM AN

Designed with the high-quality, single-pole, single-throw (SPST) tactile switch labeled as 3006.2111.

MSRP – $9.00
MIKROE-3262

**Button PLAY Click**
5V 3.3V SPI I2C UART GPIO PWM AN

It is equipped with the CTHS15CIC05ARROW, a capacitive touch sensor display.

MSRP – $21.00
MIKROE-3327

**Knob G Click**
5V 3.3V SPI I2C UART GPIO PWM AN

Combination of high-quality quadrature rotary encoder, and a LED ring of 24 individual green LEDs.

MSRP – $17.00
MIKROE-3299

**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 – $15.00
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 – $19.00
MIKROE-2768
With 24C08WP - a highly reliable, high performance CMOS technology serial 8K EEPROM.

MSRP – $8.00
MIKROE-1200

With M95M02-DR DIP-8 socket EEPROM chip with 256 KB of memory from STMicroelectronics.

MSRP – $18.00
MIKROE-1909

With AT24CM02 DIP-8 socket EEPROM chip with 256 KB of memory from Microchip.

MSRP – $14.00
MIKROE-1989

With 47L16 EERAM, a 16Kbit SRAM with EEPROM Backup from Microchip.

MSRP – $14.00
MIKROE-2728

With 47C16 EERAM, a 16Kbit SRAM with EEPROM Backup from Microchip.

MSRP – $14.00
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 – $10.00
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 – $12.00
MIKROE-2287

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 – $12.00
MIKROE-2374

Flash 4 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries the S25FL512S, a 512 Mbit SPI Flash memory module.
MSRP – $25.00
MIKROE-3191

Excelon-LP Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Equipped with the CY-15B108Q, a serial ferroelectric (FRAM) module with 8 Mbit density.
MSRP – $25.00
MIKROE-3104
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 – $9.00
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 – $16.00
MIKROE-924

Secure Click
5V   3.3V  SPI  I2C
UART  GPIO  PWM  AN
With ATECC508A cryptographic coprocessor with secure hardware-based key storage.
MSRP – $9.00
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 – $9.00
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 – $9.00
MIKROE-2761
Secure 4 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Includes the ATECC608A, a secure CryptoAuthentication™ device from Microchip.
MSRP – $9.00
MIKROE-2829

SRAM Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Provides 1 Mbit of additional SRAM memory, via Microchip’s 23LC1024.
MSRP – $15.00
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 – $13.00
MIKROE-2828

EEPROM 4 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
An EEPROM memory medium with the capacity of 256KB.
MSRP – $15.00
MIKROE-2536

MRAM Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Uses the MR25H256, a 256 kilobits serial SPI MRAM memory module from Everspin company.
MSRP – $18.00
MIKROE-2914
It features two VO2630 dual channel, high speed optocoupler modules.

MSRP – $21.00
MIKROE-1196

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

MSRP – $18.00
MIKROE-1370

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

MSRP – $26.00
MIKROE-1899

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

MSRP – $45.00
MIKROE-1507

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

MSRP – $119.00
MIKROE-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

**Opto 3 Click**
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
Two pairs of normally opened, high-quality solid-state relays labeled as TLP241A.
MSRP – $21.00
Mikroe-3319

With DS2401 enhanced silicon serial number IC. Provides a unique registration number. An ideal solution for testing and diagnostics of the mikroBUS™ socket pin states.
Toshiba’s TB6575F-NG IC for driving 3-phase full-wave Brushless DC motors.

**MSRP – $39.00**
Mikroe-2441

It carries TI’s DRV10964 BLDC motor controller with an integrated output stage.

**MSRP – $26.00**
Mikroe-2754

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

**MSRP – $19.00**
Mikroe-2766

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

**MSRP – $18.00**
Mikroe-1526

**MSRP – $17.00**
Mikroe-2699
**DC MOTOR 3 Click**

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

With Toshiba's TB-6549FG full-bridge driver for direct current motors. Up to 3.5A with 30V.

**MSRP – $19.00**

**Mikroe-2047**

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**DC MOTOR 4 Click**

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

With MAX14870 motor driver from Maxim Integrated. Motors’ voltage supply 4.5V-36V.

**MSRP – $15.00**

**Mikroe-2221**

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**DC MOTOR 5 Click**

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

With TI's DRV8701 brushed DC motor full-bridge gate driver. Operating voltage supply 5.9V-45V.

**MSRP – $17.00**

**Mikroe-2699**

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**Fan Click**

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

With EMC2301 controller for powering and regulating the operation of 5V four-wire fans.

**MSRP – $9.90**

**Mikroe-2004**

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**Fan 2 Click**

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

With MAX31760 precision fan-speed controller. Can control two fans at the same time.

**MSRP – $15.00**

**Mikroe-2708**
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-1926

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
**MOTOR CONTROL**

**STEPPER 4 Click**
- **5V**
- **3.3V**
- **SPI**
- **I2C**
- UART
- GPIO
- PWM
- AN

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

**MSRP – $19.00**
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 – $27.00**
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 – $17.00**
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 – $12.00**
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 – $18.00**
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 – $17.00
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 – $16.00
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 – $18.00
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 – $19.00
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 – $19.00
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 – $17.00
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 – $13.00
MIKROE-3109

**Servo Click**

5V 3.3V SPI I2C

UART GPIO PWM AN

A 16-channel PWM servo driver with the voltage sensing circuitry.

MSRP – $25.00
MIKROE-3133

**FAN 4 Click**

5V 3.3V SPI I2C

UART GPIO PWM AN

A two-wire fan driver. Utilizes the LTC1695, an I2C fan speed controller.

MSRP – $15.00
MIKROE-3200

**DC MOTOR 7 Click**

5V 3.3V SPI I2C

UART GPIO PWM AN

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

MSRP – $61.00
MIKROE-3289
<table>
<thead>
<tr>
<th>Module</th>
<th>Voltage</th>
<th>3.3V</th>
<th>SPI</th>
<th>I2C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x20W Amp Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
</tr>
<tr>
<td>2x5W AMP Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
</tr>
<tr>
<td>AudioAmp Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
</tr>
<tr>
<td>BUZZ Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
</tr>
<tr>
<td>BUZZ 2 Click</td>
<td>5V</td>
<td>3.3V</td>
<td>SPI</td>
<td>I2C</td>
</tr>
</tbody>
</table>

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

- **2x20W Amp Click**
  - MSRP – $21.00
  - MIKROE-2779

- **2x5W AMP Click**
  - MSRP – $19.00
  - MIKROE-2477

- **AudioAmp Click**
  - MSRP – $14.00
  - MIKROE-2368

- **BUZZ Click**
  - MSRP – $9.00
  - MIKROE-945

- **BUZZ 2 Click**
  - MSRP – $12.00
  - MIKROE-2720

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

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

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

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

With CMT-8540S-SMT magnetic buzzer transducer. The buzzer’s resonant frequency is 4 kHz.
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-2659

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

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

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

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

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

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

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

**MP3 Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

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

**2x30W Amp Click**
- 5V
- 3.3V
- SPI
- I2C
- UART
- GPIO
- PWM
- AN

MSRP – $29.00
MIKROE-1431

MSRP – $15.00
MIKROE-2555

MSRP – $9.00
MIKROE-2563

MSRP – $21.90
MIKROE-946

MSRP – $23.90
MIKROE-3010
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

AudioAmp 4 Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
With the LM4860, an audio amplifier IC capable of delivering up to 1W of continuous power to an 8ohm load.
MSRP – $17.00
MIKROE-3271

AudioMUX Click
5V  3.3V  SPI  I2C
UART  GPIO  PWM  AN
Two-band digitally controlled high-quality audio processor with BASS ALC feat. and a 4-channel input selector.
MSRP – $49.00
MIKROE-3344
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 – $18.00
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 – $16.00
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 – $16.00
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 – $24.00
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
**R Meter Click**

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

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
DIGI POT 5 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A digitally controlled quad potentiometer, with the resistance of 10KΩ.
MSRP – $16.00
MIKROE-2863

PIXI™ Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Features proprietary PIXI™ technology. Configurable 20-channel mixed-signal data converter.
MSRP – $29.00
MIKROE-2817

Slider Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Features a mechanical slide action potentiometer.
MSRP – $24.00
MIKROE-2702

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 – $59.00
MIKROE-2553

PAC1934 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Carries PAC1934 four channel DC power/energy monitor from Microchip.
MSRP – $29.00
MIKROE-2735
The TC9400, a voltage-to-frequency and frequency-to-voltage converter from Microchip.

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

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

The LTC2500-32. It is a 32-bit oversampling ADC with a configurable digital filter, from Analog Devices.
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 – $39.00
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 – $14.00
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-2690

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 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 – $29.00
MIKROE-2932
Hz to V 2 Click
5V 3.3V SPI I2C

UART GPIO PWM AN

With the VFC32KU, a voltage-to-frequency and frequency-to-voltage converter.

MSRP – $42.00
Mikroe-3126

V to Hz 2 Click
5V 3.3V SPI I2C

UART GPIO PWM AN

With the VFC32KU, a voltage-to-frequency and frequency-to-voltage converter.

MSRP – $42.00
Mikroe-3131

PWR Meter Click
5V 3.3V SPI I2C

UART GPIO PWM AN

Uses the MCP39F511A, a very sophisticated monitoring IC from Microchip, with 16-bit processing core.

MSRP – $42.00
Mikroe-3169

PWR Meter 2 Click
5V 3.3V SPI I2C

UART GPIO PWM AN

Measuring and monitoring voltage up to 24V and current up to 5A. It carries the MCP3910 module.

MSRP – $19.00
Mikroe-3150

RMS to DC Click
5V 3.3V SPI I2C

UART GPIO PWM AN

With the LTC1968, converter IC, which outputs an analog voltage depending on the RMS value of the input signal.

MSRP – $35.00
Mikroe-3311
<table>
<thead>
<tr>
<th>Component</th>
<th>Features</th>
<th>Description</th>
<th>Reference</th>
<th>MSRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUX Click</td>
<td>5V 3.3V SPI I2C UART GPIO PWM AN</td>
<td>Equipped with the MUX509, a precise analog multiplexing IC.</td>
<td>MIKROE-3247</td>
<td>$17.00</td>
</tr>
<tr>
<td>MUX 2 Click</td>
<td>5V 3.3V SPI I2C UART GPIO PWM AN</td>
<td>The MUX508, a modern CMOS analog multiplexing integrated circuit.</td>
<td>MIKROE-3245</td>
<td>$17.00</td>
</tr>
<tr>
<td>Slider 2 Click</td>
<td>5V 3.3V SPI I2C UART GPIO PWM AN</td>
<td>Utilizes the PTA3043, a linear, high-grade, 10K potentiometer</td>
<td>MIKROE-3301</td>
<td>$20.00</td>
</tr>
<tr>
<td>Current 2 Click</td>
<td>5V 3.3V SPI I2C UART GPIO PWM AN</td>
<td>Equipped with an integrated transimpedance amplifying circuit.</td>
<td>MIKROE-3282</td>
<td>$17.00</td>
</tr>
<tr>
<td>POT 2 Click</td>
<td>5V 3.3V SPI I2C UART GPIO PWM AN</td>
<td>The MCP1541, a precision voltage reference IC from Microchip is used to provide the voltage of 4.096V.</td>
<td>MIKROE-3325</td>
<td>$12.00</td>
</tr>
</tbody>
</table>
Buck-Boost Click
5V 3.3V SPI I2C UART GPIO PWM AN
Features LTC3129-1, a buck-boost DC/DC conversion integrated circuit.
MSRP – $20.00 MIKROE-2806

Charger 5 Click
5V 3.3V SPI I2C UART GPIO PWM AN
Designed to charge Lithium-Ion and Lithium-Polymer batteries.
MSRP – $16.00 MIKROE-2848

LED driver 2 Click
5V 3.3V SPI I2C UART GPIO PWM AN
Carries the MCP1643 - LED constant current regulator, made by Microchip.
MSRP – $15.00 MIKROE-2807

MCP16331 Click
5V 3.3V SPI I2C UART GPIO PWM AN
Functions as a non-inverting buck-boost voltage regulator.
MSRP – $20.00 MIKROE-2762

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 – $16.00 MIKROE-2858
**MCP1664 Click**

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

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

**MSRP** – $18**00**

**MIKROE-2575**

**MIC23099 Click**

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

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

**MSRP** – $13**00**

**MIKROE-2574**

**VREG Click**

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

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

**MSRP** – $24**00**

**MIKROE-2443**
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 – $27.00
MIKROE-2901

Charger 2 Click
5V | 3.3V | SPI | I2C
UART | GPIO | PWM | AN
The STBCC08, an 800 mA standalone linear Li-Ion battery charger with thermal regulation.
MSRP – $17.00
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 – $22.00
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 – $15.00
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 – $15.00
MIKROE-2950
MIC24055 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
Equipped with the MIC24055, high-efficiency buck regulator from Microchip.
MSRP – $29.00
MIKROE-2835

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
MIKROE-2799

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
MIKROE-2814

MIC33153 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
A DC-DC adjustable step-down (buck) converter.
MSRP – $21.00
MIKROE-2887

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 – $21.00
MIKROE-3055
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 – $27.00
MIKROE-2963

Boost-INV Click

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

The LTC3582, programmable boost and inverting DC/DC converter with OTP memory.

MSRP – $21.00
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 – $29.00
MIKROE-3123

UPS Click

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

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

MSRP – $25.00
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 – $11.00
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
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
<table>
<thead>
<tr>
<th>Component</th>
<th>MSRP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BUCK 7 Click</strong></td>
<td><strong>$27.00</strong></td>
<td>The MAX17504, a high efficiency, synchronous step-down DC-DC converter with internal compensation.</td>
</tr>
<tr>
<td><strong>Buck 8 Click</strong></td>
<td><strong>$28.00</strong></td>
<td>Uses the MAX17536, a high-efficiency, synchronous step-down DC-DC converter.</td>
</tr>
<tr>
<td><strong>Charger Click</strong></td>
<td><strong>$22.00</strong></td>
<td>Carries a battery charger controller and a battery charge monitor, along with a battery connector.</td>
</tr>
<tr>
<td><strong>Smart Buck Click</strong></td>
<td><strong>$29.00</strong></td>
<td>The MIC2230, a dual synchronous step-down DC/DC regulator.</td>
</tr>
<tr>
<td><strong>LED-Driver 5 Click</strong></td>
<td><strong>$15.00</strong></td>
<td>The TPS54200, a synchronous buck converter designed to drive monochrome, color, and IR LED arrays.</td>
</tr>
</tbody>
</table>

**Power Management**

- **5V**
- **3.3V**
- **SPI**
- **I2C**
- **UART**
- **GPIO**
- **PWM**
- **AN**
Buck-Boost 3 Click
5V 3.3V SPI I2C
UART GPIO PWM AN
The ISL85403, a 2.5A regulator with the integrated high-side MOSFET and a low-side driver.
MSRP – $27.00
MIKROE-3277

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

POWER MANAGEMENT / CLOCK AND TIMING
### CLOCK AND TIMING

<table>
<thead>
<tr>
<th>RTC 3 Click</th>
<th>RTC 4 Click</th>
<th>RTC 5 Click</th>
<th>PLL Click</th>
<th>Clock Gen 2 Click</th>
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<tr>
<td><strong>5V</strong></td>
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<tr>
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<tr>
<td><strong>Carries BQ32000, a real time clock with an integrated trickle charge circuit for automatic switchover.</strong></td>
<td><strong>Carries DS2417, a real time clock/calendar with a 1-Wire MicroLAN interface. 16.3 kbits per second.</strong></td>
<td><strong>Carries Microchip’s MCP79510 real-time clock/calendar.</strong></td>
<td><strong>The ICS501, a LOCO™ PLL clock multiplier, from Integrated Device Technology.</strong></td>
<td><strong>The DS1087LU-266, a 3.3V spread-spectrum EconOscillator, from Maxim Integrated.</strong></td>
</tr>
<tr>
<td><strong>MSRP – $21.00</strong></td>
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<td><strong>MSRP – $21.00</strong></td>
<td><strong>MSRP – $15.00</strong></td>
<td><strong>MSRP – $17.00</strong></td>
</tr>
<tr>
<td>MIKROE-1839</td>
<td>MIKROE-1891</td>
<td>MIKROE-1990</td>
<td>MIKROE-2993</td>
<td>MIKROE-3076</td>
</tr>
</tbody>
</table>
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