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Terminal click
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TERMINAL CLICK

PID: MIKROE-3745

Weight: 21 g

Terminal click is a mikroBUSTM socket expansion board, which provides an easy and elegant solution for adding the external connection capability to the click boardTM, plugged on a mikroBUSTM. Featuring stacking headers makes it easy way for expanding the connectivity of the development system with the mikroBUSTM, while keeping the bus free to use with any click boardTM.

Terminal click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click boardTM comes as a fully tested product, ready to be used on a system equipped with the mikroBUSTM socket.


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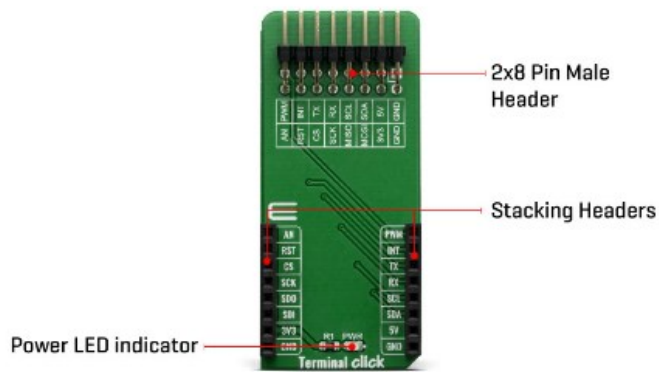
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Terminal click can be especially interesting for the development systems that are equipped with mikroBUSTM slots only, or small number of GPIO pins available, such as the Clicker family of development systems. Using Terminal click on such system will greatly improve its usability, and yet it will remain small, compact and manageable. Thanks to standard-pitch (2.54mm) header, it is easy to connect a wire jumper, a probe of an oscilloscope for example, or maybe some additional electronic circuit. That way, Terminal click makes it easy monitor signals in real-time, while the click board is present in the system.

HOW DOES IT WORK?

Terminal click consists of a high-quality PCB that can be connected to the mikroBUSTM as any other click board. On the top of the Terminal click, a 2x8 pin header is placed. Each of the header pins is corresponding to a pin on the mikroBUSTM being used. These are simply wired in parallel. Thanks to the stacking headers, the connection with the click boardTM remains firm and stable. Besides . Having this kind of stacking topology, allows for easy pin access and manipulation of the stacked click boardsTM, retaining a perfect connection quality at all times.



When there's a need to attach external equipment to the development system, the desired mikroBUS™ socket can be populated with Terminal click, allowing even more connections. This makes the stacking capacity almost unlimited. However, attention should be paid not to make the lines attached to the mikroBUS™ too long. In situations like this, the frequency of the communication might need to be stepped down a bit, in order to compensate for the longer mikroBUS™ signal lines.

Lines of the mikroBUS™ to which Terminal click is attached, are shared through the top 16-pin header, which mirrors pins of the connected mikroBUS™. Therefore, a care should be taken when working with the Terminal click and connecting an external device to it, because the same pins on the mikroBUS™ are shared, either for the communication (SPI, UART, I2C) or for some other purpose (RST, INT, or other pins used as GPIO).

Since all the stacked click boards™ share the same power rails, a Terminal click also shares the power rails, which makes it compatible with any click board™ and development systems.

CLICK BOARD™ PRODUCT RANGE

The union of Terminal click with the other click boards™ allows you to reach an unlimited number of possibilities when it comes to combining different functionalities and adding external connectivity. You just need to choose the ones you want from our ever-growing range: environmental sensors, LEDs, speech recognition, heart rate sensors, motor control, GSM, GPS, WiFi, analog to digital converters, movement sensors.

More than 700 click boards™ that can be stacked and integrated in a simple and convenient way are at your disposal.


SPECIFICATIONS

Type	Adapter
Applications	Provides easy, secure and reliable stacking of up to four additional boards per mikroBUS™ socket.
Interface	GPIO
Click board size	L (57.15 x 25.4 mm)

Input Voltage	3.3V,5V
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PINOUT DIAGRAM




This table shows how the pinout on Terminal Click corresponds to the pinout on the mikroBUS™ socket (the latter shown in the two middle columns).

Notes	Pin					Pin	Notes
Analog Input	AN	1	AN	PWM	16	PWM	PWM Output
Reset	RST	2	RST	INT	15	INT	Hardware Interrupt
SPI Chip Enable	CS	3	CS	RX	14	TX	UART Transmit
SPI Clock	SCK	4	SCK	TX	13	RX	UART Receive
SPI Slave Data Out	SDO	5	MISO	SCL	12	SCL	I2C Clock
SPI Slave Data In	SDI	6	MOSI	SDA	11	SDA	I2C Data
Power Supply	3V3	7	3.3V	5V	10	5V	Power Supply
Ground	GND	8	GND	GND	9	GND	Ground

ONBOARD SETTINGS AND INDICATORS

Label	Name	Default	Description
LD1	PWR	-	Power LED Indicator
J1	HM2X8	-	J1 Connector (2.54mm pitch, male header) has 16 pins, one for every mikroBUS™ pin.

RESOURCES

-  [mikroBUS™ Standard specification](#)
-  [LibStock: mikroSDK](#)
-  [Click board catalog](#)

DOWNLOADS

-  [Terminal click 2D and 3D files](#)
-  [Terminal click schematic](#)

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