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FT Click

PID: MIKROE-3929

FT Click is a compact smart transceiver add-on board that helps you add a Free Topology (FT) interface to any host board with the mikroBUS™ socket. Leveraging FT, the most reliable and easiest-to-scale wired communications media, FT Click lets you network sensors and devices to create IoT solutions for automation and control networks that are easier to develop, integrate and install. This Click board™ supports full communication stacks for LON® and BACnet FT, as well as FTMQ (MQTT like messaging format) on board to simplify integration of BACnet, LON or custom IoT networks over twisted pair wire. FT Click is ideal for markets including smart buildings, cities, machines, agriculture, manufacturing, transportation and many more where wireless communications do not provide the required reliability and scale.

Specifications

Type	Free Topology
Applications	Ideal for markets including smart buildings, cities, machines, agriculture, manufacturing, transportation and many more where wireless communications do not provide the required reliability and scale.
On-board modules	FT 6050 Free Topology Smart Transceiver integrates a high-performance Neuron core with a Free Topology twisted pair transceiver, FT-X3 is external communication transformer that enables operation in the presence of high frequency common-mode noise
Key Features	Multi drop free topology fieldbus supporting 64 devices per channel; Polarity insensitive, isolated, and highly fault or noise tolerant; 78 kbps up to 500m (using free topology) and 2700m (using terminated bus); Unique IDs and automatic addressing scheme available; Supports link power; Uses inexpensive twisted pair wiring
Interface	I2C,SPI,UART
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[FT 6050 datasheet](#)

[AT25SF081 datasheet](#)

[FT-X3 datasheet](#)

[FT click example on Libstock](#)

[FT Click schematic](#)

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