Rapidly Prototype IoT Solutions Using World's Most Reliable Communication Technology
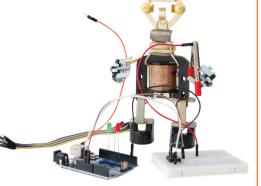
FT Click: mikroBUS compatible free topology (FT) module

Works with popular IoT development platforms

- Mbed
- Arduino
- Free RTOS
- Raspberry Pi
- STMCube

Plug 'n' play mikroBUS-compatible FT Click helps IIoT developers harness the ultimate wired communication tech

Looking for the most reliable and easiest-to-scale communications media for your next industrial IoT project? Use FT Click to instantly prototype your connected devices through open protocols. Based on the powerful Adesto FT 6050 smart transceiver, FT Click provides three ways to communicate: BACnet, LON and MQTT. These protocols run on top of the uniquely robust FT twisted-pair media. Learn more about the benefits of FT at adestotech.com/ft-6050-chip/.

Need some ideas to get started? We've built sample applications using hugely popular Node-RED and freely available open APIs to eliminate any learning curve. Our communication software stacks are open source and available for a wide variety of development environments.

FT Click Application Examples:

- Building management system (BMS) / room control
  - » Measures temperature, relative humidity, barometric pressure, and IAQ
- Energy monitoring / load control
  - » Measures energy usage, power, voltage, and current
  - » Two output relays for load control
- Industrial automation / robotics
  - » Accelerometer — measures 3-axis motion
- Lighting
  - » Pushbutton / LED demonstrating low latency response
  - » Tri-color LED control

Compatible with Adesto Embedded IoT Platform

FT Click can build up to a full stack of industrial IoT solutions from transceiver to network infrastructure to management software using Adesto's embedded product family.

These powerful, well-integrated building blocks are used to create any IoT projects, including smart buildings, cities, machines, agriculture, manufacturing, transportation and many more.

FT 6050 Smart Transceiver

- Provides processing power and communications for IoT devices
- Full communication stacks for LON and BACnet FT

SmartServer IoT Edge Server

- Simplifies integration with Modbus, BACnet, LON and any custom IoT networks
- Provides supervisory control services such as scheduling, logging, and alarming

IOX Module

- Provides industrial quality digital and relay control plus high accuracy energy monitoring
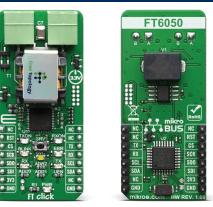
IzoT Commissioning Tool (CT)

- Provides graphical tool for designing and provisioning an IoT network

PLEASE CONTACT US TO LEARN MORE

adestotech.com/ft-6050-chip/

embedded-iot@adestotech.com

1-408-938-5200

Based on Adesto's smart transceiver, pictured above, FT Click provides processing power and robust, scalable communications over free topology (FT) media.

FT Click Module Hardware and Software

The compact FT Click adds a free topology (FT) interface to any host with a mikroBUS slot or adapter. Onboard, we've distilled our FT software down to the basics and written APIs to make it fast and easy to add reliable communications to your projects.

Hardware:

- Adesto FT 6050 processor
- Adesto FT-X3 transformer
- Adesto AT25SF081 flash memory

Software:

- FTMQ – simple messaging protocol
- BACnet FT – simple BACnet messaging derived from open source BACnet stacks
- LON FT – simple LON messaging based on the ShortStack API
- Node-RED integration on a Raspberry Pi enables one-click integration with IoT services

Support Available from ConnectEx

Adesto's FT Click partner ConnectEx provides a variety of support options for IoT developers. To learn more visit www.connect-ex.com.

- Complete development kits for your choice of platform
- Consulting services to implement your product solution

IoT Cloud Partners

At Adesto we're proud of developing open solutions that give developers as many choices as possible. To that end, we're partnering with major cloud providers to ensure compatibility with their services. Official partnerships include IBM Watson IoT and Microsoft Azure.

Echelon by Adesto

www.adestotech.com