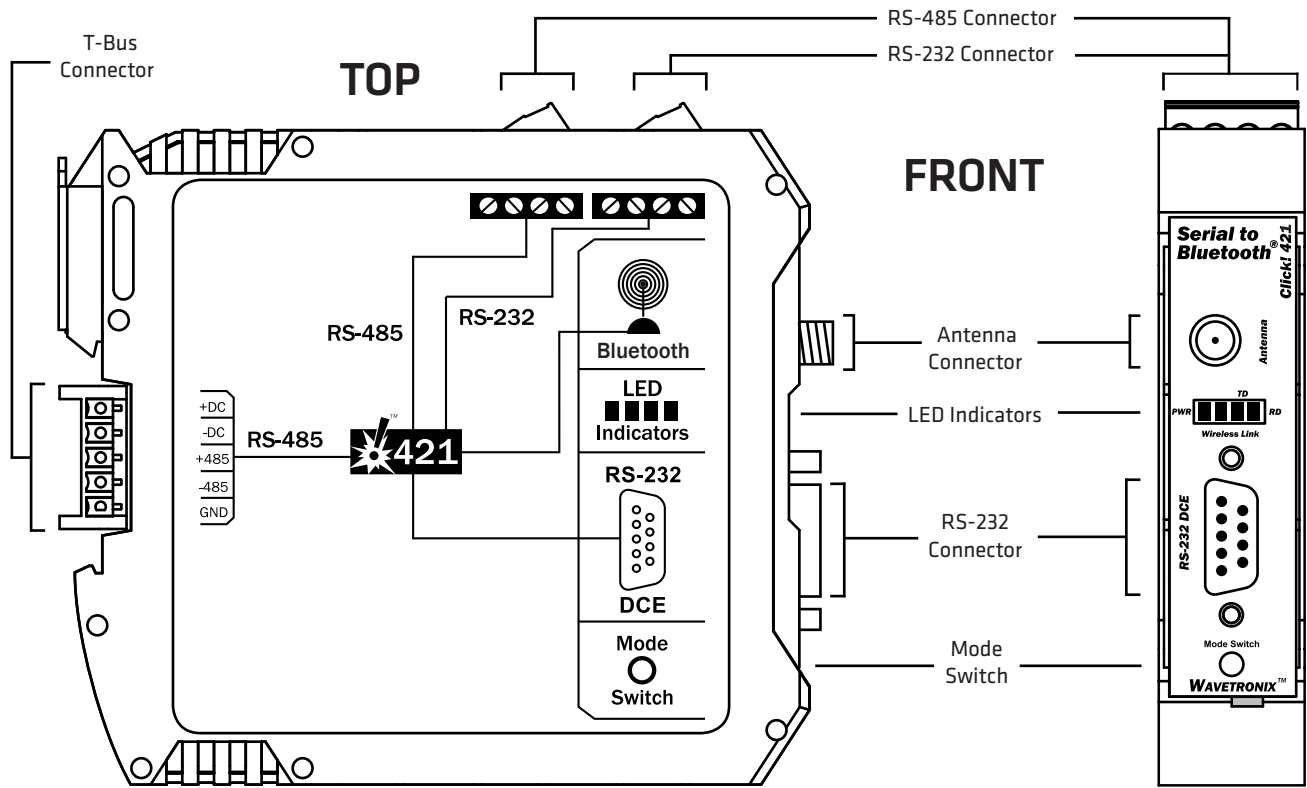


Bluetooth® to Serial Converter

The Click 421 converts half-duplex serial communications to Bluetooth® and vice versa. The convenience of Bluetooth® communication allows users to monitor sensors after installation is complete without physically connecting to the sensor or peripheral device.

Features

- Converts half-duplex serial communication to Bluetooth® and vice versa
- Autobauds to serial devices
- Includes two RS-232 communication ports and two RS-485 communication ports for device pass-through
- Uses either Bluetooth® or serial interface to configure the device
- Conformal coated
- Supports external antenna that can be installed outside the traffic cabinet or box for greater signal range



Technical Specifications

Physical

- Weight: 0.2 lbs (0.1 kg)
- Physical dimensions: 4.5 in. × 4 in. × 0.9 in. (11.4 cm × 10.2 cm × 2.3 cm)
- Ambient operating temperature: -29°F to 165°F (-34°C to 74°C)
- Humidity: up to 95% RH

Mounting

- DIN rail-mountable
- Hot-swappable

Power

- Power supply voltage: 10 to 24 VDC
- Power consumption: 0.5 W

Connections

- Device has the following connection points:
 - Power: 5-position connector for connecting from the T-bus
 - RS-232: One pluggable screw terminal and a DB-9 connector
 - RS-485: 5-position connector for connecting from the T-bus as well as one pluggable screw terminal and an RJ-11 jack
 - Bluetooth® module
 - Supports an external antenna for Bluetooth® that can be installed on the exterior of a traffic cabinet or other installation for maximum signal range

Communication

- Converts RS-232 to RS-485 and vice versa
- Converts serial communication (RS-232 and RS-485) to Bluetooth®
 - Maximum line-of-sight distance: 330 ft (100 m) at maximum transmit power
 - Adjustable transmit power level: 2, 5, 12.5 or 32 mW
- 16-character alphanumeric personal identification number (PIN) security authentication secures the wireless link

Baud Rates

- Supports the following baud rates:
 - 1200 bps
 - 2400 bps
 - 4800 bps
 - 9600 bps
 - 19200 bps
 - 38400 bps
 - 57600 bps
 - 115200 bps

Ordering Information

Click 421 Bluetooth® to serial converter
CLK-421

ACCESSORIES

CLK-250 – Click 250 N-female to N-female bulk-head coaxial surge

100-0202 – 2.4 GHz 2.5 dBi whip antenna

100-0141 – 2.4 GHz 12 dBi omni directional antenna

100-0155 – 900 MHz/2.4 GHz 3 dBi omni low profile antenna

Wavetronix

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Configuration Features

- Push-button on faceplate does the following:
 - Resets device to factory defaults
 - Autobauds device to match the baud rate of the attached serial device
 - Selects Link Test mode, where the device transmits a data sequence that can be checked using a PC or Pocket PC
- LEDs:
 - Blue LED illuminates when Bluetooth® link is made
 - Red LED illuminates when device has power
 - Green LED (TD) illuminates when data is transmitted
 - Yellow LED (RD) illuminates when data is received

Pocket PC & PC Configuration Software

- Comes with Click Supervisor, configuration software with the following features:
 - Runs on Pocket PC or Windows desktop or laptop PC (Windows XP and newer)
 - Configures serial communication settings including serial baud rates
 - Can remotely and directly upgrade the device firmware to



add new features to the device

- Can save/open a configuration to/from a file, allowing a common configuration to be easily programmed into many devices
- Has customizable drivers that are stored in an XML file that describes the settings for a device as well the graphical user interface for that driver in the configuration software

Remote Upgradeability

- Flash memory can be remotely upgraded to add functionality to the firmware when new features have been developed to improve the performance of the installation

NEMA TS2-1998 Testing

- Complies with the applicable standards stated in the NEMA TS2-1998 Standard
- Test results available for each of the following tests:
 - Shock pulses of 10g, 11 ms half sine wave
 - Vibration of .5 Grms up to 30 Hz
 - 300 V positive/negative pulses applied at one pulse per second at minimum and maximum DC supply voltage
 - Stored at -49°F (-45°C) for 24 hours
 - Stored at 185°F (85°C) for 24 hours
 - Operation at -29.2°F (-34°C) and 10.8 VDC
 - Operation at -29.2°F (-34°C) and 26.5 VDC
 - Operation at 165.2°F (74°C) and 26.5 VDC
 - Operation at 165.2°F (74°C) and 10.8 VDC

Testing

- Passes manufacturer's test before shipping

Extended Support

- Extended support options are available from Wavetronix; contact a Wavetronix representative for more information

Warranty

- One-year warranty against material and workmanship defect (see Click Warranty datasheet for complete details)