

Innovative Industrial Solutions

I.I.S.

Link2 Sensor LTS-12

The **Link2 Sensor LTS-12** is a highly versatile radio transceiver providing long range 900MHz wireless connectivity to nearby Bluetooth LE and CNET Mesh devices.

The LTS-12 also includes a micro-USB port for PC based configuration and/or power, a standard DE-9 port for wired connections using RS232 or RS485 to nearby instrumentation and an internal GPS for instrument location awareness. The smart instrument interface has the ability to communicate with over 70 instruments from leading manufacturers. The LTS-12 reads and interprets important measurements, alarms, and the device status. Instrument data is packaged with GPS location then encrypted and transmitted in a low bandwidth format to compatible remote monitoring systems.

Radio Uplink

The LTS-12 uses a high power (250mW) 900MHz frequency hopping radio to transmit instrument data wirelessly over longer distances. The LTS-12 can also communicate with other LTS-06 Mesh devices and optionally transmit the data back over the 900 MHz radio network to increase the wireless range of connected devices.

Compatibility

The LTS-12 is compatible with other existing devices containing the CNET Mesh Radio (may require firmware update). For Bluetooth connectivity, the LTS-12 can support Bluetooth Smart (4.0+ LE) and legacy Bluetooth SPP devices. Note this will likely require custom firmware.



MESH WIRELESS

The internal 2.4 GHZ low power radio provides shares data with other nearby mesh radios (up to 200ft.)

RADIO OPTIONS

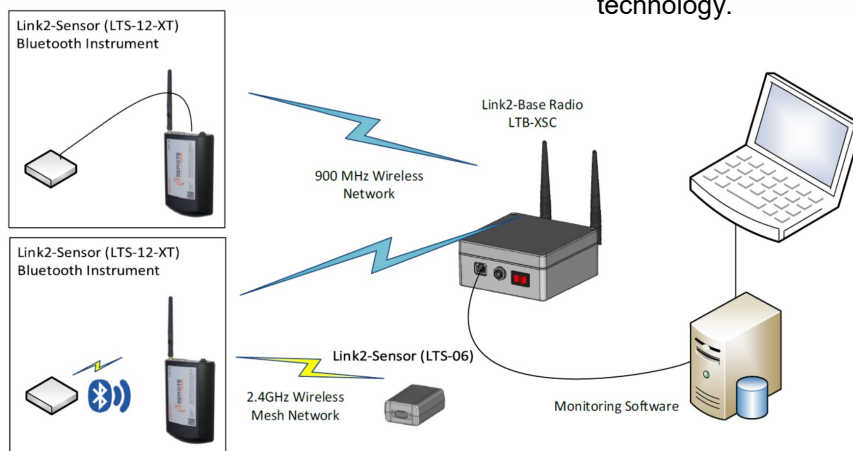
The Link2 Sensor can be configured with an optional high power radio allowing long range wireless deployments with 900MHz, 2.4GHz, Wi-Fi and cellular connectivity.

BLUETOOTH SMART SUPPORT

Connectivity with nearby Bluetooth devices

WIRELESS ENCRYPTION

Instrument data is efficiently and securely transmitted wirelessly using integrated data encryption. This protects data from outsiders while maintaining the benefits of wireless technology.



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900 MHz Radio	Range (indoor/urban RF line of sight):	Up to 2000'
	Range (outdoor RF line of sight):	Up to 1 mile
	Transmit Power Output	Up to 250 mW
	Frequency Range	902 MHz—928 MHz
	Receiver Sensitivity	-109 dBm (9600 baud)
	FCC Part 15.247	MCQ-XBPS3B
	Industry Canada (IC)	1846A-XBPS3B
Mesh Radio	Range (indoor/urban RF line of sight):	Up to 100'
	Range (outdoor RF line of sight):	Up to 200'
	Transmit Power Output	Up to 1.75 mW
	Frequency Range	2400 GHz—2.485 GHz
	Receiver Sensitivity	-95 dBm
	FCC Part 15.247	TYO-JN5168M0
	Industry Canada (IC)	7438A-CYO5168M0
Bluetooth Radio	Range (RF line of sight):	Up to 100'
	Transmit Power Output	10-16mW
	Frequency Range	2.402 GHz—2.480 GHz
	Receiver Sensitivity	-88 to -96 dBm
	FCC Part 15.247	QOQBT121
	Industry Canada	5123A-BGTBT121
Power Requirements	Internal Batteries	2 x AA Cell
	USB Power	5V DC up to 1.5A
General	Dimensions— excl. antenna (H x W x L)	1.57" x 6.10" x 3.94"
	Weight (including batteries)	10.3 oz.
	Operating Temperature	-40° F - 185° F
External Connections	USB	Mini-B USB
	DE-9	9 pin serial for RS232 (4 wire) or RS485 (2 or 4 wire)

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