



LTS-Base

LTS Telemetry Product

The LTS-Base is a radio base station that includes an Ethernet/LAN interface. The unit is extremely useful in applications where telemetry data is desired to be monitored remotely on a LAN-based monitoring architecture.

✓ CORE CAPABILITIES

- **IP Networking Capability:** Provides Ethernet/LAN connectivity to enable IP networking for in-field wireless devices, sensors, and instrumentation.
- **Flexible Power Options:** The LTS-Base can be powered via an external adapter, 12 VDC, or Power over Ethernet (PoE), making it ideal for industrial environments with limited access to power outlets.
- **Wireless Versatility:** Supports a wide range of wireless protocols including ZigBee, 802.15.4, DigiMesh, 802.11bgn (Wi-Fi), and proprietary FHSS radios. An external SMA antenna connector allows for flexible antenna configurations to extend wireless range.
- **Mini Server Functionality:** Acts as a mini-server or device server, managing incoming wireless data for access via a local area network or integration into an existing data management system.





RADIO PERFORMANCE SPECIFICATIONS

MESH RADIO PERFORMANCE	Transmit Power Output	1.75 mW
	Interface Data Rate	Internal 115,200 bps
	RF Data Rate	250 kbps
	Receiver Sensitivity	-96 dBm
	FCC Part 15.247	TYOJN5168M5
	Industry Canada (IC)	7438A-CYO5168M5

OPTIONAL RADIO: HP MESH

HIGH POWER 802.15.4 RADIO PERFORMANCE	Frequency	ISM 2.4-2.5 GHz
	Transmit Power output	79 mW
	Range Indoor/Urban	Up to 500' (150 m)
	Range Outdoor/Line of Sight	Up to 0.6 mile (1 km)
	RF Data Rate	250,000 bps
	Receiver Sensitivity	-102.1 dBm
	FCC Part 15.247	QOQMGM13P
	Industry Canada (IC)	5123A-MGM13P

OPTIONAL RADIO: DIGI XR

900MHZ XR RADIO PERFORMANCE	Frequency	902 MHz – 928 MHz 915 MHz – 928 MHz
	Transmit Power output	79 mW
	Range Indoor/Urban	Up to 460ft/up to 3km (1.8mi)
	Range Outdoor/Line of Sight	Up to 15km (10mi)
	RF Data Rate	110,000 bps
	Receiver Sensitivity	-108 dBm (110 kbps)
	FCC Part 15.247	MCQ-XB9XR
	Industry Canada (IC)	1846A-XB9XR

OPTIONAL RADIO: DIGI XTEND

900MHZ XTC RADIO PERFORMANCE	Frequency	ISM 902 to 928 MHz
	Transmit Power output	500 mW
	Range Indoor/Urban	Up to 500' (150 m)
	Range Outdoor/Line of Sight	Up to 7 miles (8.0 km)
	RF Data Rate	125,000 bps
	Receiver Sensitivity	-110 dBm (9600 bps)
	FCC Part 15.247	MCQ-XBPSX
	Industry Canada (IC)	1846A-XBPSX

GENERAL SPECIFICATIONS

POWER REQUIREMENTS	External Voltage	12V DC
	Maximum Power	12W
PHYSICAL PROPERTIES	Dimensions (HxWxL)	12 x 12 x 5 cm
	Power Connector	Switchcraft L722RAS
	Operating Temperature	-40 to 50°C
ANTENNA	Connector	SMA Female (requires antenna with SMA plug) x 2
	Impedance	50 ohms

CONTACT

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