



LTS-08

LTS Telemetry Product

The LTS-08 wireless device transceiver provides reliable and simple to use wireless connectivity for instruments via wireless communications enabling data from remote field teams to be instantly transmitted to a central monitoring system without having the need to deploy a field-based radio system. The LTS-08 is a rugged IP66 rated device that connects directly to an instrument to send and receive data from the RemoteDNA network. The unit contains an integrated GPS receiver to provide location awareness of remote operations.

✓ CORE CAPABILITIES

- **Wireless Sensor Interface:** The LTS-08 provides a wireless interface for almost any sensor or detector for a remote telemetry system. The LTS-08 can be configured to communicate via USB, RS232 (serial), and Bluetooth based instruments. The LTS-08 reads and interprets important measurements, alarms, and the device status.
- **Secure Wireless Encryption:** Instrument data is transmitted securely using integrated encryption, with optional FIPS-140 certified algorithms for enhanced protection.
- **Flexible Radio Options:** Available in 900 MHz or 2.4 GHz models to support various transmission requirements.
- **Software Compatibility:** Fully compatible with Charthouse RadSight Monitoring Software as well as third-party remote monitoring platforms such as Thermo Scientific™ Viewpoint™.



GENERAL SPECIFICATIONS

POWER REQUIREMENTS	Internal Battery	5000mAh Lithium-ion
	External Voltage	9 – 24.0 VDC
	Current	2A peak. 1A continuous Tx. 300mA local radio, GPS
PHYSICAL PROPERTIES	Dimensions (HxWxL) excluding antenna	12.1 x 7.4 x 3.9 cm
	Weight	280 grams
	USB Connector	Mini-USB
	Serial Connector	Hirose HR30-6R-6P (use HR30-6P-6S plug)
	Power/COM Connector	Hirose HR30-6R-6S (use HR30-6P-6P plug)
ANTENNA	Operating Temperature	Charging: 0°C to 40°C Discharging (normal use): -20°C to 60°C
	Connector	RP-SMA Female (requires antenna with RP-SMA plug) Internal Board Mounted (low power radio)
	Impedance	50 ohms

CONTACT

AMERICAS

Charthouse Data Management LLC

11720 Amber Park Dr,
Ste 160 PMB 1047,
Alpharetta, GA 30009
+1 (678) 935 0104
support@charthouseusa.com

WORLDWIDE

Charthouse Data Management Ltd.

Unit A17, St Vincent House,
Admiralty Park, Station Rd,
Holton Heath, Poole, Dorset,
BH16 6HX, UK
+44 (1202) 031444
support@charthouse.co.uk

DISTRIBUTOR

Advetage Solutions

111 Penn Street, Suite 202
El Segundo, CA 90245
+1 (424) 292-8432
info@advetage.com

RADIO & GPS PERFORMANCE SPECIFICATIONS

LOCAL MESH RADIO PERFORMANCE	Frequency	ISM 2.4-2.5 GHz
	Transmit Power output	1.75 mW
	Range Indoor/Urban	Up to 200' (60 m)
	Range Outdoor/Line of Sight	Up to 100' (30 m)
	RF Data Rate	250,000 bps
	Receiver Sensitivity	-102.1 dBm
	FCC Part 15.247	QOQMGM13P
	Industry Canada (IC)	5123A-MGM13P
BLUETOOTH RADIO PERFORMANCE	Frequency	2400-2483.5 MHz
	Transmit Power output	1.75mW
	Range Line of Sight	Up to 100' (30 m)
	Receiver Sensitivity	-97.4 to -102.1 dBm
	FCC Part 15.247	QOQMGM13P
	Industry Canada (IC)	5123A-MGM13P
GPS PERFORMANCE	General	72-channel u-blox M8 engine GPS L1C/A, SBAS L1C/A, QZSS L1C/A, QZSS L1 SAIF, GLONASS L1OF, BeiDou B1I, Galileo E1B/C
	Cold Start Time To First Fix (TTFF)	Typical 45s with clear sky.
	Accuracy	Position: < 4.0 m Velocity: 0.05 m/s Time: 30 ns RMS
	Sensitivity	Tracking: -166 dBm

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