

SenseLive

X7450 & X7450L

**4G DTU - RS-232/RS-485 to
4G/HTTP/MQTT/Modbus TCP Gateway
(Ethernet for X7450L)**

4G LTE DTU – RS232/485 Serial to HTTP, MQTT & Modbus TCP Edge-to-Cloud Gateway

Product Overview

The SenseLive X7450 is a cost-effective, wall-mountable CAT-1 4G DTU providing RS-232/485-to-4G connectivity; the X7450L adds an Ethernet port, enabling 4G router functionality. Both models support edge computing, offline data buffering (dozens of megabytes), and offer full remote configuration and firmware-over-the-air via SLVirCom or built-in web management (X7450L only).

Key Features

- **Multi-Network Support:** FDD/TDD LTE & GSM (7-band all-netcom) for Global Mobile, Telecom.
- **Flexible Protocols:** TCP Server/Client, UDP; transparent serial pass-through; Modbus RTU ↔ Modbus TCP; MQTT / JSON; HTTP / JSON.
- **Edge Intelligence:** Threshold alarms, data translation & scaling, change-triggered uploads, offline alarms, local storage up to ~50 MB.
- **Remote Management & FOTA:** SLVirCom desktop tool for LAN/Internet management; web UI for X7450L; secure firmware updates.
- **Industrial-Grade Design:** DC 9–24 V input; –45 °C to 85 °C operating; 0–95 % RH; flame-retardant metal housing with integrated wall-mount lugs (DIN-rail optional).



Applications

- Industrial IoT & automation data acquisition
- Power & environmental monitoring
- Access control, security systems
- Hydrological, meteorological telemetry
- Intelligent transportation & vehicle tracking

Technical Specifications

Parameter	X7450 (DTU)	X7450L (DTU + Router)
Cellular Bands	B1/B3/B5/B8 (FDD LTE); B34/B38/B39/B40/B41 (TDD LTE); B3/B8 (GSM)	Same as X7450 + Ethernet port (RJ45, 10/100 Mbps)
Throughput	LTE: ↓10 Mbps / ↑5 Mbps GPRS: ↓85.6 kbps / ↑85.6 kbps	Same as X7450 + DHCP server/client support

Serial Interfaces	RS-232 (DB9) & RS-485 (3.5 mm terminal)	Same as X7450
Serial Parameters	300–460 800 bps; 5–8 data bits; None/Odd/Even parity; 1–2 stop bits; hardware/software flow control	Same as X7450
Storage Buffer	Dozens of megabytes (~50 MB) for offline logs	Same as X7450
Power Input	DC 9–24 V via Q2.1 jack (min. 3 W)	Same as X7450
Current Draw	150 mA @ 12 V (dial-up)	Same as X7450
Operating Conditions	–45 °C to +85 °C; 0–95 % RH non-condensing	Same as X7450
Storage Conditions	–40 °C to +90 °C; 0–95 % RH non-condensing	Same as X7450
Dimensions & Mounting	94 × 65 × 25 mm; integrated screw lugs for wall mount (guide-rail kit optional)	Same as X7450
SIM & Antenna	Standard SIM (3 V/1.8 V); 50 Ω SMA female antenna port (stick or suction-cup)	Same as X7450
LED Indicators	Power, 4G status (dialing/connected), Active (net→serial), Link (serial→net)	Same as X7450

Hardware Description

- **Front Panel:** Q2.1 power jack; RS-485 terminal; (X7450L) RJ45 LAN port.
- **Rear Panel:** SMA antenna port; spring-loaded SIM tray; DB9 RS-232 port.

- **LEDs:** Visual indicators for power, network link, data activity, and protocol status.

Configuration & Management

- **Serial AT Commands:** Full parameter set for baud, IP/domain, port, protocol, MQTT topics, heartbeat & registry packets.
- **Web UI (X7450L):** Default IP 192.168.10.1; login password 666666; graphical work-mode, network, serial & protocol settings.
- **ZLVirCom Tool:** LAN discovery, virtual COM port creation, firmware upgrade, cloud-based device grouping & management. ZLAN8305 ZLAN8305L User...

Accessories & Ordering

- **Models**
 - **X7450** – RS-232/485 to 4G DTU
 - **X7450L** – Adds Ethernet-to-4G router capability
- **Antennas:** 2 m suction-cup (default); glue-stick optional (1.5 m/3 m).
- **Power:** 12 V DC/1 A adapter; Q2.1 jack (terminal block optional).
- **Mounting:** Wall screws (included); DIN-rail bracket (optional).

For volume pricing, custom firmware, or OEM integration, contact SenseLive Technologies.