

License-Free System for Frequencies <1 GHz

Terminal

TinyOne[™] Pro 868 MHz

38.4 Kbps - 500 mW



ETSI) ETSI Certified Device







RS232, RS422 and RS485 Serial Interfaces











The TinyOne™ Pro IP67 terminal is a complete ETSI certified low-cost RF and long-range solution in the license-free 868 MHz ISM band for harsh environments and weather conditions.

The terminal is the 500 mW extension of the TinyOne™ Plus 25 mW and is multi-channel capable of transmitting data up to 4,000 m.

With a power supply range of 6-40 V, supporting RS232/RS485/RS422 serial interfaces, advanced proprietary embedded standard firmware (S-0NE) or mesh low-power networking (M-0NE), and a reinforced hard metal casing with fixed or removable quarter antenna, this terminal is optimal for long-range outdoor applications such as remote monitoring for the water, petroleum, and gas industries, traffic lights, and irrigation.

TinyOneTM Pro is compatible with the TinyOneTM Plus backbone network topology and is upgradeable over-the-air.

Performance

Range: 4,000 m

Output Power: 500 mW

■ Serial Data Rate: Up to 115.2 Kbps

■ Radio Data Rate: 4.8 to 38.4 Kbps

■ Sensitivity (CER < 10⁻³): -105 dBm

Power Requirements

■ Power Supply: 6 - 40 V

■ Terminal Consumption at 12 V:

Rx: 20 mA Tx: 250 mA Std-by: 70 μA

Physical Properties

■ IP67 casing: 100 x 64 x 40 mm (casing only) 200 x 64 x 40 mm (with antenna and connector)

■ Temperature: -40°C to +85°C

Networking

Frequency: 869.4 - 869.65 MHz

Channels: 1 or 10Modulation: GFSK

Serial Interface: RS232, RS422, RS485

■ Hayes Mode:	Yes
■ Transparent Mode:	Yes
ACK Mode:	Yes
Addressed Mode:	Yes
Client/Server Mode:	Yes
Repeater Mode:	No
Mesh Network:	Yes
■ I/O Copy:	No
Listen Before Talk:	Yes
Download Over-the-Air:	Yes

Order-No.

Please contact your Telit representative for order codes and further information.



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Optional Features

- TinyOne™ Pro 868 MHz terminals are available:
 - (a) in metallic IP67 casing with fixed antenna
 - (b) in metallic IP67 casing with removable antenna























