

License-Free System for Frequencies <1 GHz

Terminal

TinyOne[™] Plus 868 MHz

38.4 Kbps - 25 mW





ETSI Certified Device



WEEE Compliant



Embedded S-One or M-One Stack



Low Power Mode



RS232, RS422 and RS485 Serial Interfaces



DOTA - Upgradeable and Configurable Over-the-Air



Network Compatibility TinyOne™ Plus with -Pro



IP67 Casing



Standby: 70µA



Complete Terminal with 6-40V Power Supply

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

The terminal includes a 25 mW multi-channel radio module with advanced proprietary embedded standard firmware (S-ONE) or mesh networking (M-ONE), and a reinforced hard metal casing with fixed or removable quarter antenna.

With a power supply range of 6-40 V, supporting RS232/RS485/RS422 serial interfaces and an efficient low-power mode, this terminal is optimal for outdoor applications such as telemetry, irrigation, urban traffic control, or urban display control and is capable of transmitting data up to 1,500 m.

TinyOneTM Plus is compatible with the extended 500 mW TinyOneTM Pro, for backbone network topology and is upgradeable over-the-air.

Performance

Range: 1,500 m

Output Power: 25 mW

Serial Data Rate: Up to 115.2 Kbps

Radio Data Rate: 4.8 to 38.4 Kbps

■ Sensitivity (BER < 10⁻³):

-105 dBm (at 4.8 Kbps)

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 62 x 40 mm (casing only) 200 x 62 x 40 mm (with antenna and connector)

■ Temperature: -40°C to +85°C

Networking

■ Frequency: 868 - 870 MHz

Channels: 8

■ Modulation: GFSK

Serial Interface: RS232, RS422, RS485

■ Hayes Mode: Yes Transparent Mode: Yes ACK Mode: Addressed Mode: Yes ■ Client/Server Mode: Yes ■ Repeater Mode: Νo Mesh Network: Yes ■ I/O Copy: ■ Listen Before Talk: Yes Download Over-the-Air: Yes

Order-No.

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



TinyOne[™] Plus 868 MHz







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Optional Features

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

















