










License-Free System for Frequencies <1 GHz

Terminal

PowerOne™ 868 MHz

9.6 Kbps - 500 mW



-  ETSI Certified Device
-  RoHS and WEEE Compliant
-  Embedded S-One Stack + Mult. Protocol Modes
-  High Performance for Long-Range Applications
-  RS232, RS422 and RS485 Serial Interfaces
-  Mod-, Profi-, JBus and Unitelway Compatible
-  Deported Analog and Digital I/Os
-  IP65 or IP67 Casing for Harsh Environments
-  Complete Terminal with 6-40V Power Supply

PowerOne™ 868 MHz terminals are a complete ETSI certified RF solution for long-range reliable wireless data transmission.

With a line-of-sight range of 16,000 m and featuring the powerful S-ONE embedded firmware, these 500 mW terminals bring high efficiency to wireless applications such as rural and urban tele-metry, GPS data transmission for localization & fleet management, urban display monitoring, weather stations control and industrial control and are compatible with Profibus, Modbus, and Unitelway protocols.

PowerOne™ terminals are available in a metallic IP65 or IP67 casing, with fixed or removable quarter antenna, with a power supply range of 6-40 V, support RS232/RS485/RS422 serial interfaces, and provide integrated or external I/O copy management.

Performance

- Range: 16,000 m
- Output Power (adjustable): 25 to 500 mW, 14 to 27 dBm
- Serial Data Rate: Up to 115.2 Kbps
- Radio Data Rate: 9.6 Kbps
- Sensitivity (BER < 10⁻³): -115 dBm (at 9.6 Kbps)

Power Requirements

- Power Supply: 6 - 40 V
- Terminal Consumption at 12 V:
Rx: 40 mA
Tx: 210 mA
Std-by: 15 µA

Physical Properties

- IP65 casing: 159 x 85 x 35 mm (without antenna), weight 450g
- IP67 casing: 187 x 80 x 60 mm (without antenna), weight 750g
- Temperature: -20°C to +55°C

Networking

- Frequency: 869.4 - 869.65 MHz
- Channels: 10
- Modulation: GMSK
- Serial Interface: RS232, RS485, RS422

- | | |
|-----------------------|----------|
| ■ Hayes Mode: | Yes |
| ■ Transparent Mode: | Yes |
| ■ ACK Mode: | Yes |
| ■ Addressed Mode: | Yes |
| ■ Client/Server Mode: | Yes |
| ■ Repeater Mode: | Yes |
| ■ Mesh Network: | No |
| ■ I/O Copy: | Yes** |
| ■ Listen Before Talk: | Optional |

**IP65 with external ADAM I/O modules

Order-No.

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





(a)

Optional Features

- PowerOne™ 868 MHz terminals are available in:
 - (a) IP65 casing with fixed antenna
 - (b) IP65 casing with removable antenna
 - (c) IP67 casing with removable antenna
 - (d) IP67 casing with removable antenna and integrated I/O



(b)



(c)



(c)



(c)

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