

PLUS READER

The PLUS Reader performs the function of receiving PLUS tag packets, demodulating the tag data, and measuring the time of arrival (TOA) for each tag. The PLUS Reader passes tag data and TOA information to the PLUS Location Software in UDP/IP packets using the integrated 10/100 Mbps Ethernet port. The PLUS Reader is typically collocated and physically attached to the Ultra Wideband Antenna.

Unless the PLUS Reader is configured for Proximity mode, it will receive its timing synchronization from a PLUS Synchronization Distribution Panel (SDP). It can also be powered from the SDP, or by using an external AC adapter. There are three versions available – one certified for use in the USA, and one for the countries of the European Union and one for Korea. The EU and Korea versions do not include the Calibration Tag port on the rear panel of the Reader.

SPECIFICATIONS

DIMENSIONS

1.5" H, 8.5" W, 6.5" D
(38 mm x 216 mm x 165 mm)

WEIGHT

1.8 pounds (816 g)

INPUT VOLTAGE

48 VDC Nominal
(45-52 VDC)

POWER CONSUMPTION

5.2 Watts typical

OUTPUT VOLTAGE

45-52 VDC

TEMPERATURE

Operating: -20°C to +55°C
Storage: -40°C to +60°C

RELATIVE HUMIDITY

Up to 95%, noncondensing

SAFETY MECHANISMS

Thermal, overload, and short-circuit protection

NETWORK INTERFACE

10/100 Mbps Ethernet

USA CERTIFICATIONS

FCC Part 15 (Class B)
ETL (UL60950)

EU CERTIFICATIONS

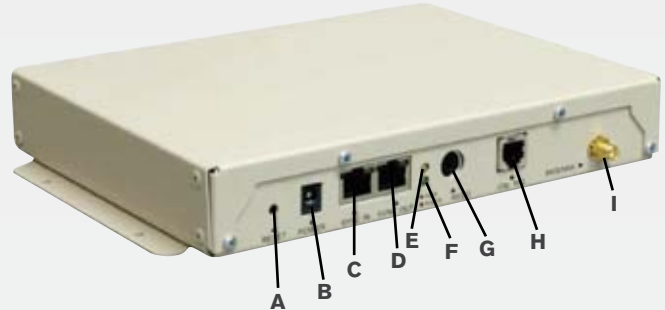
CE Mark
RoHS/WEEE

KOREA CERTIFICATIONS

KN22, 61000

PART NUMBER

1000RL1 – USA
101RE01 – EU
102RK01 – KOREA



- A. RESET** Recessed momentary switch to reboot Reader without disconnecting power
- B. POWER** Auxiliary power jack (2.5 mm I.D. x 5.5 mm O.D.) to supply Reader with 48 VDC from an external power supply
- C. SYNC IN RJ-45** Jack for connection to the SDP or Reader earlier in the network chain. Provides the 10/100 Mbp Ethernet Data interface, 48 VDC power input, and synchronization signal to the Reader.
- D. SYNC OUT RJ-45** Jack for connection to a Reader later in the network chain. Provides the 10/100 Mbps Ethernet Data interface, 48 VDC power, and synchronization signal to the next Reader in the chain.
- E. DATA LED** Yellow LED toggles when a valid Tag packet has been processed
- F. POWER LED** Green LED lights when Reader is booted and operational
- G. RS-232** PS/2 connector to provide an RS-232 terminal connection for setting Reader network parameters
- H. CAL TAG** Modular jack for connecting to an optional calibration tag; not included on EU and Korea versions
- I. ANTENNA** SMA input connector for the antenna

FOR MORE INFORMATION

TIME DOMAIN[®]

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