

# PLUS READER

The PLUS Reader performs the function of receiving PLUS tag transmissions, 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 two versions available, depending on the country of use, Region 1 or Region 2.

## 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

### R1 CERTIFICATIONS

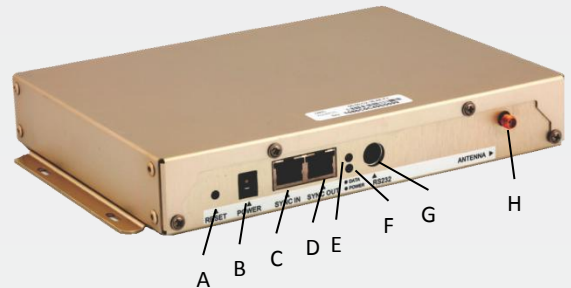
FCC Part 15 (Class B) ETL  
(UL60950)

### R2 CERTIFICATIONS

CE Mark  
RoHS/WEEE

### PART NUMBER

1000RL1 – Region 1  
100PRL1 – Region 1  
Precision Zone  
101RE01 – Region 2



- 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 Mbps 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. ANTENNA** SMA input connector for the antenna

## FOR MORE INFORMATION



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