AMTEL RFID READERS

RFID system consists of two major components - a reader and a transponder (or tag). They work together to provide a non-contact solution to uniquely identify people, objects or vehicles. RFID does not require line of- sight between the tag and the reader and works effectively in dirty environments.

The Tag is basically a RF transmitter that contains an antenna, a microchip and a battery to power the microchip. Information is stored in the tag can range from as little as an identification number, to kilobytes. The encoded data is converted to electromagnetic field by the microchip circuitry and radiated at pre-defined intervals using an antenna.

Radio Frequency Identification Technology or RFID Technology is an extremely powerful and cost effective technology that allows a wide range of objects (including people) to be identified, tracked and managed. RFID technology is based on the use of small radio tags or transponders and readers/encoders for connection to an information system. These readers communicate with multiple transponders and interface with host device to transfer the data. Multiple readers can be connected in a network to a single host device.

The Readers detect the RFID Tags affixed on Assets, Vehicles or carried in person. The readers receive the tag ID and decode them to send over a wire interface to the connected control panel. Software is installed in the panel, receives the tag ID to take appropriate action. The reader is used for Indoor/Outdoor Access control applications, Asset Tracking and Monitoring Applications.

FEATURES

- Up to 255 unique Receiver Addresses possible
- Remote readers are powered via the CAT5 cable, centralized or distributed PSU topology may be used.
- Reader status indication by LED's at RJ45 connectors
- ESD protection as specified by FCC and CE requirements
- Conformance to the RF standards required by the internationally accepted regulatory bodies: i.e. FCC, CE and ETSI
- Sensitivity adjustment and reader addressing done remotely via PC software application.

TECHNICAL SPECIFICATIONS

Electrical

Supply Voltage	:	8.5VDC 13.6VDC
Max current consumption	:	60mA
ESD protection	:	2kV Human Body Model
Standard Data Rate (Baud)	:	9600, 8, n,1 (Configurable up to 11200 Baud)
Interface	:	RJ45 Connectors

Radio Frequency Characteristics

RX Frequency	:	433.92Mhz±10MHz
Demodulation	:	ASK
Sensitivity	:	-103 dBm
Bandwidth	:	700KHz
Stability	:	2ppm/deg C
RF Input	:	50Ohm BNC (Female)

Physical

Dimension	:	84mm x 40mm x 19mm
Weight	:	45 grams
Color	:	Black (Clariant 04-600 2%)
Type of Material	:	ABS
Color	:	Black
Input/Output Connections	:	2 x RJ45 Sockets

Environmental

Operating Temperature	:	-10º C to +60º C
Storage Temperature	:	-20º C to +70º C
Humidity	:	5% to 90% (Non Condensing)

ORDERING INFO:

Part Number	:	260-RFI-PRDA0
Product Name	:	AMTEL RFID Reader - RS232
Product Description	:	AMTEL RFID Reader: UHF Adjustable Read Range up to 50 Feet and Serial Output RS-232 in Plastic Housing
Part Number	:	260-RFI-PYDA0
Product Name	:	AMTEL RFID Reader - RS232 & Wiegand
Product Description	:	AMTEL RFID Reader: UHF Adjustable Read Range up to 50 Feet with Serial RS-232 or Weigand Adjustable Output in Plastic Housing

10773 NW 58th Street # 334, Doral, FL 33178
Phone: (305) 597-5000 | Fax: (305) 402-0254
Website: www.amtelasps.com

ASPS
Access, Security & Parking Systems, Inc.