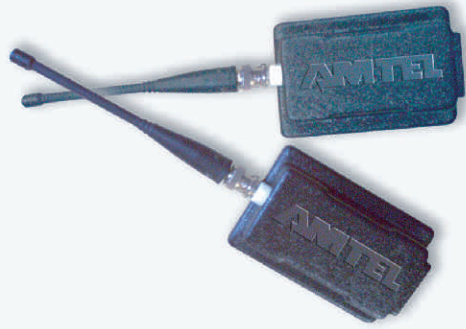


AMTEL RFID READERS



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 reader consists of an antenna, a RF receiver and processing circuitry. The antenna couples the electromagnetic energy transmitted by the Tag to the Reader. The processing circuitry of the reader decodes the received information and sends the data to a Host Computer or a Control Device/Panel.

BACKGROUND

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.

OPERATION

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
- Conformance to the RF standards required by the internationally accepted regulatory bodies: i.e. FCC
- Sensitivity adjustment and reader addressing done remotely via PC software application.

TECHNICAL SPECIFICATIONS

Parameter	Value
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	
•Size	84mm x 40mm x 19mm
•Weight	45 grams
•Colour	Black(Clariant 04-600 2%)
•Type of material	ABS
•Colour	Black
•Input/Output Connections	2 x RJ45 Sockets
Environmental	
•Operating temperature	-10° C to +60° C
•Storage temperature	-20° C to +70° C
•Humidity	5% to 90% (non condensing)

ORDERING INFO

260-RFI-OSD00 - AMTEL RFID Reader