

XC-RF850

Integrated RFID Reader

Robust, Low-profile Design, IP 65 sealing rating
Integrated, High-performance Circular/Linear Antenna
Secondary antenna port for 2-antenna applications
Exceptional sensitivity & enhanced interference rejection
Industry Leading UHF Performance
Best in class EPC Gen 2 RFID solutions



Features

Dense Reader Mode (DRM)

Restricts readers transmission to non-overlapping channels, and optimizes reader-tag communication in environments with multiple readers transmitting simultaneously

Integrated, high-performance antenna and a second antenna port

Enables 1-antenna or 2-antenna applications, simple to deploy, and easy to manage

Received Signal Strength Indicator (RSSI)

Determines the received signal strength of a tag being returned for the current tag operation

General Purpose Input Output (GPIO)

Allows direct interfacing with external devices and peripherals without requiring extra devices and power supplies

Enhanced Interference Rejection

Ensures strong interference rejection in the presence of other readers, or any environmental condition that creates electrical noise at the same frequency as the communications signal

Rugged Design & Construction

With IP65 environmental sealing rating, offers flexibility to use in nearly any environment; dramatically reduces repair and downtime costs



Applications

- Supply Chain
- Asset Management
- Logistics
- Retail
- Automatic Vehicle Identification

Specifications

Physical Characteristics	
Dimensions	290.8mm×290.8mm×86mm 11.4in×11.4in×3.4in
Weight	2kg / 4.4lb
Case Material	Metal, high temperature material
Power Supply	
Adapter	AC input 100-240 (50/60Hz) DC output 24V/2.5A
Performance Characteristics	
Standards Supported	EPCglobal C1 Gen2 ISO 18000-6C
Frequency Range	902-928MHz & 865-868MHz
Operating Mode	Single / dense reader mode or trigger mode
Output Power	9dBm to 30dBm (software configurable)
Read Range	0m to 12m / 0ft to 39.4ft (configuration dependent)
Write Range	0m to 6m / 0ft to 19.7ft (configuration dependent)
Read Rate	140 times / second (times of read one tag operations in one second)
Memory Size Supported	EPC : up to 486 bits TID : up to 112 bits User: up to 64K bits
Integrated Antenna	
Gain	7dBi
Polarization	Circular or linear
Hardware interface	
Antenna Port	One external TNC-RP-type reverse polarity (male) port
GPIO Interface	2 inputs, optically isolated, 3 relay control outputs, (or 2 Wiegand outputs, support Wiegand26/34/66 type)
Com. interface	RS-232, RS-485, Ethernet port

User Environment	
Operating Temp.	– 20°C to +70°C / -4 °F to 158 °F
Storage Temp.	– 40°C to +70°C / -40 °F to 158 °F
Humidity	5% to 95% RH non-condensing
Environmental Sealing	IP65
Version Number	
Hardware	V1.0
Software	V1.0
Reader Purchase Info.	
XC-RF850-FCJ	Integrated, circularly polarized antenna, relay output interface
XC-RF850-FCW	Integrated, circularly polarized antenna, Wiegand output interface
XC-RF850-FLJ	Integrated, linearly polarized antenna, relay output interface
XC-RF850-FLW	Integrated, linearly polarized antenna, Wiegand output interface
Accessory Purchase Code	
Wall-mounting Accessory	2020500013
Shielding Plate Mounting Accessory	020500014

Contact us

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