UHF LONG RANGE READER

UHF stationary reader 2 or 4 ports

R-UHF-SR220 / SR420

Product info

- Unsurpassed reading performances

- GS1/EPCglobal UHF Gen2 (ISO 18000-63) compliant

- 2 or 4 antenna ports configuration (up to 16 or 32 using the antenna HUB)

- Serial, USB, Ethernet communication interfaces

- Built-in GPIOs

- Supports Datamars Cloudburst software

Product Description

Brought to the Laundry market as part of Datamars partnership with Impinj, the UHF Long Range Reader delivers outstanding reading performances when used with Datamars UHF LaundryChip^{TM} transponder family. The Long Range Reader is available with one, two or four antenna ports depending on the application needs and budget.

An optional software layer named Cloudburst has been developed by Datamars to take full advantage of the reader in a laundry environment. Cloudburst enables users to easily integrate the UHF reader with no need of software development to control tag reading activity and retrieve EPC codes on a serial port as well as on the Ethernet and USB keyboard interface.

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Technical data

Dimensions (L x W x H)	190 x 175 x 30 mm (7.5 x 6.9 x 1.2 inches)
Weight	0.68 kg (1.5 lbs)
Operating temperature	-20 °C to +50 °C (-4 °F to 122 °F)
Humidity	5 % to 95 %, non-condensing
Power supply	Power over Ethernet (PoE) IEEE 802.3af AC-DC power supply unit rated 24VDC/2.1A – sold separately
Power consumption	13.5 W @ +32.5 dBm, 11.5 W @ +30.0 dBm, 3 W @ Idle
Operating frequency range	865-960 MHz – specific bands covered by different models
RFID compliance	GS1/EPCglobal UHF Gen2 (ISO 18000-63)
Transmit power	FCC: 32.5 dBm AC / 31.5 dBm PoE ETSI: 31.5 dBm AC / 30.0 dBm PoE
Receive sensitivity	-84 dBm (maximum)
Return loss	10 dB (minimum)
Antenna ports	4 monostatic – R-UHF-SR420 2 monostatic – R-UHF-SR220
GPIO	4 optically isolated inputs (30 V DC max.) 4 optically isolated outputs (30 V DC max.) 5V, 200 mA max. power supply output available
Interfaces	10/100BASE-T Ethernet, RS-232, USB (HID)
Warranty	1 year

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Ordering information

R-UHF-SR220 (ETSI/FCC/GX1/GX2)	ETSI: 800 3075-283 FCC:800 3075-281 GX1: 800 3075-285 GX2: 800 3075-287
R-UHF-SR420 (ETSI/FCC/GX1/GX2)	ETSI: 800 3075-284 FCC: 800 3075-282 GX1: 800 3075-286 GX2: 800 3075-288
R-UHF-SR220 CB with Cloudburst SW pre-installed	ETSI: 800 3075-302 FCC: 800 3075-303
R-UHF-SR420 CB with Cloudburst SW pre-installed	ETSI: 800 3075-304 FCC: 800 3075-305
A-UHF-HUB-KIT for SR420/SR220 Antenna HUB Kit	800 3075-830
A-UHF-HUB-EXT for SR420/SR220 Antenna HUB extension	800 3075-831

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