



RFID Reader UHF

LR READER 4/8/16C



PRODUCT DESCRIPTION

Powered by the innovative Impinj E710 reader chip, the UHF RFID readers LR16C, LR8C, and LR4C are capable of reading up to 900 RFID tags per second, offering exceptional performance and reliability for various industrial applications.

The compact design, multiple communication interfaces, and PoE power supply mode ensure easy installation and rapid deployment. These readers deliver high performance and long reading distances, making them ideal for demanding environments. Their durable, all-aluminum alloy housing provides excellent heat dissipation and is built to withstand rough industrial conditions.

These readers support Ethernet, RS232, WiFi and other communication modes, enabling seamless integration into a wide range of systems. Additionally, these communication channels allow users to configure functional parameters and upgrade the firmware as needed.

To further simplify implementation, we provide a comprehensive software development kit specifically designed for our UHF RFID reader series, supporting flexible and efficient customization for diverse industrial use cases.

APPLICATIONS

- Machine Authentication
- Automotive Production
- Logistics Applications
- Data Collection (IoT)
- Robotics

FEATURES

- New Generation IMPINJ Reader IC
- 33dBm RF Power Output
- 4 / 8 / 16 External Antennas
- GPIO (4x Input / 4x Output)
- Reserved WIA Antenna Interfaces
- Ethernet, RS232, RJ45
- PoE (Power over Ethernet)

RFID OPTIONS

- UHF
(EPC C1 GEN2 / ISO 18000-63)

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	DC 12V / 3A, PoE
Power Rating	Standby 2.5W Work 13.5 (MAX) @ +30 dBm
PoE Power Supply	802.3af or 802.3at (optional)
Operating Frequency	840 - 960 MHz, software programmable
Output Power	5 dBm - 33dBm (± 1dB) adjustable
Operating Distance	up to 12 meters*
Antennas	TNC - Male: 4 external (50 Ω)
	SMA - Male: 8 external (50 Ω) 16 external (50 Ω)
Chipset	Impinj E710
Max. Reading Rate	≥ 900 tags/s
Status	Power Indicator, Status Indicator
I / O Ports	GPIO (4 IN and 4 OUT)
Communication Interface	UART serial port (RS232 / RS485) USB 2.0, RJ45, Ethernet (10 - 100m) WiFi,

MECHANICAL CONDITIONS

Material	Aluminium / Plastic
Dimensions	209 × 156 × 27.5 mm
Protection Class	IP40 (Additional Housing option available with IP67)

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20°C up to 60°C
Storage Temperature	-40°C up to +8°C
Humidity	up to 90%, non condensing

SDK INFORMATION

Standard ISO 18000-6C, EPC Class 1 Generation 2

APPLICABLE STANDARDS

EMC	EN 301 489-3
Radio Regulation	EN 302 208-2
Safety	CEI EN 60950-1 CEI EN 50364

SUPPORTED STANDARDS / TAGS

Supported OS	Windows 7 or higher
Supported Languages	C, C#.NET, Java

CERTIFICATIONS

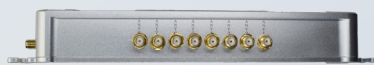
Certifications	CE
----------------	----

**Reading distance depends on tag, antenna and environmental conditions*

4 ANTENNAS:



8 ANTENNAS:



16 ANTENNAS:



BACKSIDE:



ORDER CODES

ORDER CODES

UHF Long Range Reader 4CH - LR4C - ETSI	R-IN-UHF-LR4C
UHF Long Range Reader 8CH - LR8C - ETSI	R-IN-UHF-LR8C
UHF Long Range Reader 16CH - LR16C - ETSI	R-IN-UHF-LR16C