PulsarLR Long-Range RFID Reader/Writer

Art. no.:
2200 3066

METRATEC

- Based on Impinj E710
- 30 dBm / 1 W power
- Up to 12m read range
- Power-over-Ethernet

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The four antenna ports give you the flexibility to build complex RFID devices, such as RFID gates and tunnels. The number of antennas can further be extended using our multiplexers to up to 64 read points if you want to build an RFID smart shelve or a similar application.

Thanks to the Power-over-Ethernet feature, integrating the reader into your system is easier than ever. At the same time, the product supports all legacy connections like RS232 and RS485 and can be powered by a classical 24V DC power supply. The industrial 24V inputs and outputs allow you to connect a photocell directly to the reader to trigger the scanning process or connect a stack light to signal something to the user.

The revolutionary improvement is in the internal software. With its Embedded Linux core the reader has much more processing power than any other Metratec product which offers several advantages: The entire product can be controlled via the browser, so no local software needs to be installed. The reader is also the first of our products to include our "Smart Reader" feature. This optional mode can process data directly on the device and write scan results to a REST path or an SQL database – thus saving you the need for a dedicated RFID middleware.

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Technical Specification

Operating Principle	Long-Range UHF RFID Reader/Writer
Operating Frequency	868 MHz (ETSI, EU) and 915-928 MHz (FCC, USA)
Supported Protocols	EPC Class 1 Gen 2 / UHF RFID
Output Power	max. 1 W (30 dBm)
Read Range	up to 12 m (with modern UHF tag IC)
Antenna Connector	4x R-TNC, 50 Ohm
Operating Voltage	10-30V DC (± 10%) / Power over Ethernet
Power Consumption	up to 2 A
Connectivity	Ethernet (incl. PoE), USB-C, RS232, RS485
Inputs/Outputs	4x 24V outputs, 2x optically isolated 24V inputs
Temperature Range	-20 °C to +70 °C
Dimensions	210 x 100 x 48 mm
Certifications	conforms with CE, e.g. ETSI 302 208

About Metratec

Metratec develops, produces and sells Radio electronics for the areas of
"Identification", â??Localizationâ?•, and â??Communicationâ?• and thus serves a
variety of markets with standard products as well special solutions. Customers
include OEM customers, system integrators and research facilities worldwide.