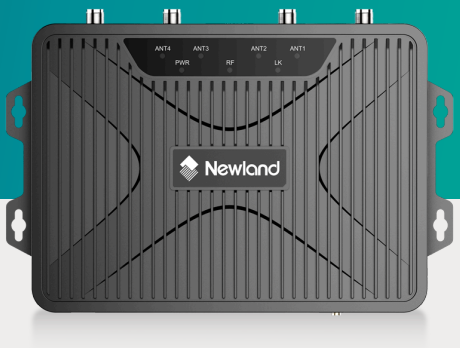
Newland AIDC
SCANNING MADE SIMPLE



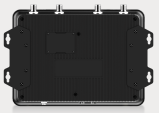
URF520 Solea

UHF Devices

_NETSelekt.pl

EasySet Ethernet IP53 Nset PoE RFID

RS232 RS485 UHF USB-B 2 Warranty 2 Years







Features

High-Performance RFID Reading.
The URF520 Solea is a UHF RFID reader built on Impinj E710 RFID chip. With a reading distance of up to 14 meters and a read rate of up to 900 tags per second, it's suitable for high-throughput applications such as a self-service checkout. Its transmit power is adjustable from 5 to 33 dBm, allowing the reader to be fine-tuned to the application: wide coverage for large areas, or a lower power for precise zone to avoid picking up unwanted tags. The URF520 Solea is built on the globally recognized EPCglobal Gen2 standard, working with UHF tags from a wide range of manufacturers, giving businesses the flexibility to choose the right tags for their application, rather than being tied to a single vendor.

Flexible Antenna Support.
The URF520 Solea can connect up to four antennas simultaneously, enabling a single reader to cover multiple reading points without the costs and complexities of installing several readers. It supports antennas with different gain levels (3, 6, and 9 dBi), allowing each installation to be customized for its environment, whether it requires tight control over read zones or long-range coverage. Additionally, the reader automatically detects the presence and functionality of each connected antenna, quickly flagging any connection issues. This feature ensures that problems are identified and resolved promptly, eliminating the need for manual checks.

Efficient and Reliable Data.
The URF520 Solea supports real-time and trigger-based read modes. In real-time mode, the reader scans continuously, capturing tags the moment they appear. In trigger-based mode, it scans only when prompted by an external signal, such as a sensor or an automation event, providing precise control over when reads occur. The reader's built-in memory can also store up to 1,000 tag reads, filtering out duplicates so that only new, relevant data is passed on.

Easy Installation.
The URF520 Solea features built-in mounting holes, allowing it to be mounted directly to a wall or other surface without the need for additional brackets. Its compact design and flexible mounting options make it easy to integrate into various environments, from retail checkouts to industrial settings. The reader supports PoE, enabling it to receive both power and data through a single Ethernet cable, which simplifies cabling and reduces installation costs. Its low power consumption also helps it comply with energy budgets, allowing it to run over Ethernet without a separate power supply. This also means less heat generated during continuous operation.

Built for Integration.
The URF520 Solea provides a wide range of communication interfaces, including Ethernet, RS-232, RS-485, and USB, ensuring flexible and reliable data transmission across a variety of systems. The reader also features an interface for connecting sensors and relay outputs for automated responses to external events, such as triggering a light or alarm when a tag is detected at a checkout counter or a pallet is moved through a dock door, without requiring additional hardware. Relay outputs can also control other equipment in response, such as activating a conveyor belt. The reader's inputs are opto-isolated to protect against electrical noise, ensuring reliable operation in industrial environments.

Durable, Industrial Design
The URF520 Solea features an aluminum

create a future-ready system. Whether you're upgrading an existing setup or designing a new one, the UR520s delivers the performance and flexibility you need—without unnecessary complexity.

The UR520s is available in two configurations to suit different deployment scenarios. The UR520s-dea is a desktop-style unit with a built-in power supply, making it ideal for quick setup and testing in office or lab environments. The UR520s-dea is a compact, DIN-rail mountable version designed for integration into industrial control cabinets. Both models share the same core RFID performance and support the full range of EPC Gen2 features.

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When it comes to reading tags, the UR520s delivers reliable performance even in challenging environments. It can read up to 900 tags per second, and its dense reader mode helps minimize interference when multiple readers are operating in close proximity. With an operating temperature range of -20°C to +60°C, ensures consistent performance in demanding environments. Its combination of durable design and environmental resilience makes it suitable for a range of industries, including retail, logistics, manufacturing, and warehouse environments. Backed by a standard two-year warranty, the UR520s-dea offers added confidence and reliability for long-term deployment.

2 Years Full Warranty

Nset

TECHNICAL SPECIFICATIONS

UR520s-dea

Performance

Antenna Interface	4 TNC Interface
Antenna Presence Detection	Supported
FHM Mode	Frequency Hopping Spread Spectrum (FHSS) or Fixed Frequency (FF)
Frequency Range	ETSI (Europe): 865-868 MHz, FCC (USA): 902-928 MHz, SRRC-M1 (China): 920-925 MHz
Output Power	5dBm-33dBm (±1dB) adjustable
Protocol Supported	EPCC1Gen2 (ISO18000-6C)
Read Distance	>14m (outdoor open space) (use 8dBi antenna, ALN-9740)
Read Rate	900 tags/sec (read rate can be affected by environment)
Read/Write Work Mode	Support single trigger mode and real-time mode
Receive Sensitivity	<-84dBm
RFID Engine	Impinj chip module
RSSI (Received Signal Strength Indicator)	Supported

Physical

Dimensions	227×166×42mm (with bracket: 256×166×42mm)
GPIO	4-way optocoupler isolation input, 4-way relay output
Housing	Aluminium
Input Voltage	9-24VDC, 12V/3A
Interfaces	RS-232, RJ-45, USB3.0, RS-485
Power Consumption	10.5W
Power Supply	DC adapter, PoE (802.3af), PoE+ (802.3at)
Tag Cache	100000 tags
Weight	1.5kg (4 channels)

Environmental

Ambient Temperature Detection	Supported
Humidity	5% to 95% (non-condensing)

IP Rating	IP53
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)

Communication

Communication Protocol	TCP/IP, RS-232, RS-485, USB 2.0 full speed

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Specifications are subject to change without notice

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