N680 UHF Gen 2 long range 4-Port Reader/Writer

Overview:

The EPCglobal™-certified NephSystem Technologies N680 long range 4-Port reader is a stationary, UHF Gen 2 RFID tag reader and writer that operates at the global 860MHz ~ 960MHz frequency bands, it provides built-in network (RJ45 or Wi-Fi) and serial (RS-232) and USB2.0 connectivity between tag data and enterprise system software. With its powerful Impinj R2000 RFID engine, the software adjustable power output ability as well as the capability of integrating with up to 4 antennas, N680 is able to support fast tag read/write operation with high identification rate.

Based on an embedded hardware architecture and its high performance RFID engine, the built-in and versatile peripherals (e.g. relay channel, etc.) As well as the internal precise clocking system, N680 can be set as a standalone device that is able to work independently/automatically to scan RFID tags, trigger relay channels, etc.

Besides regular Command Mode that responds to a host controller through API, N680 can be also configured to the Automatic Mode so that it is able to automatically output tag data over to its serial port (or through the TCP/IP network) without being controlled from a host PC, thus significantly reducing the software development workload and nearly being a plug & play device.

As a result of all the above, N680 allows solution providers to customize the reader to each application, such as Personnel Tracking/Monitoring, Warehouse Management, High Value Asset Tracking, Hospital, Schools, Vehicle/Train Tracking, Parking Management, Manufacturing, Shop Floor, Toll, etc. As well as it offers users the most versatile, flexible and convenient measurement capabilities.

Main Features:

❖ 4 antenna port design
❖ Built-in Ethernet and RS232 and USB2.0, optional PoE and Wi-Fi is optional
❖ Precise internal clocking
❖ Versatile GPIO and dry-contact relay capability
❖ Global regions supported - FCC, ETSI and other
❖ Power output adjustable through software
❖ On-board memory (store up to 800 tag data)
❖ High speed data throughput
❖ Software changeable command or automatic mode
❖ Built-in LED and Buzzer
❖ Compatible with ISO18000-6B EPC Class 1 Gen 1 and ISO18000-6C EPC Class 1 Gen 2

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Specifications:

Frequency	:	Global 860MHz ~ 960MHz (Software Adjustable)
Communication Interface	:	Built-in Ethernet and RS-232 and USB; PoE or Wi-Fi is optional
RFID Transponder Compatibility	:	ISO18000-6C EPC Gen 2 | ISO18000-6B EPC Gen 1
Technical Certificates	:	ETSI, CE, RoHS, FCC/EPC Gen2 Certification, ISO/IEC; 18000-6C, ISO/IEC 18000-6B
I/O Capability	:	4 x GPIO and 1 x dry-contact relay channel
Power requirements	:	External DC9V Power supply Or optional PoE (Powered over Ethernet)
Antenna Connection	:	Max 4 antenna ports (TNC Female)
Transmit Power	:	0 to 30dBm (Software Adjustable)
Status Indication	:	Buzzer and LED
Humidity	:	5% to 90% relative
Operating Temperature	:	-10° to 60°C
Storage Temperature	:	-20° to 75°C
Dimension	:	310mm (L)* 210mm (W) * 41mm (H)
Weight	:	1880g
Housing	:	Aluminum