

## 99XX - 4 Ports, High Performance, UHF GEN 2 RFID Reader

### FEATURES

- EPC Gen 2 Interoperable
- Automatic inventory optimization
- Feature-rich Protocol
- Exceptional sensitivity and performance
- Automode, with on-board state machine
- High read rates for demanding applications
- Enhanced noise rejection for reliable data capture
- RSSI & speed filters
- Monostatic antenna design
- Easy RFID software integration
- RoHS EU 2002/95/EC compliant
- Easily configurable and upgradeable
- Industrial, installation-friendly I/O connector
- Antenna reflection cancellation optimization
- Auto "Seek" function for low duty cycle applications



- **Enhanced Failsafe operation** - Up to 2500 tag records in non-volatile memory – preserving data in the event of a power loss. Continued collection of tag (up to 6000) when in Autonomous Mode even if LAN connection interrupted.
- **EPC Gen 2 Dense Reader Mode** - Compliant with EPC Gen 2 Dense Interrogator Specifications, which reduces interference impact on other readers – enabling larger number of readers to coexist without reducing read rates.
- **Interference Management** - The reader facilitates low duty cycle "sniff & read" ("Seek") mode for application where motion detection is not an option, or where power conservation or RF interference is prime concern. Several methods for interference mitigation.
- **Monostatic Antenna Topology** – Compact footprint and easy integration reducing cost and complexity. Active noise cancellation and optimisation circuit for ensuring high read rates from monostatic antenna system by correcting for phase distortions.
- **General Purpose I/O (GPIO)** – Optically isolated (ensuring accurate reception in noisy environments). Providing simple and tight integration to external sensors.

### Hardware Specifications

LAN Protocols	TCP/IP, NTP, DNS, DHCP, SNMP
Dense reader management	Dense Reader Mode, auto event triggering and event management
Frequency	902 MHz – 928 MHz
Transmit Channels	50
Channel Spacing	500 KHz
RF Power Capability	31.6dBm (Radiated power limited by local regulations &/or site licences) Typical: 4 watts EIRP (36 dBm radiated)
Power	Robust universal AC-DC power converter; 100-240 VAC, 50/60Hz
Communications	LAN TCP/IP (RJ-45), RS-232 (DB-9 F)
Antennas	4 reverse polarity TNC monostatic ports; circular or linear polarization; near and far field compatible
General Purpose Inputs/Outputs	Optically isolated. 0-24VDC rail. 4 inputs. 8 outputs (500mA capacity). Installation-friendly connector.
Dimensions	(L) 20.3 cm x (W) 17.8 cm x (D) 4.1 cm (8" x 8.3" x 1.8")
Weight	1.5 kg (4.4 lb)
Operational Temperature	-20°C to +50°C (-4°F to +122°F)
Environmental Rating	IP53
LED Indicators	Power, Link, Active, Ant 0-3, CPU, Read, Sniff, Fault
Software SDK	Java, .NET, Ruby APIs
Shock	40 G's acceleration, 11ms duration, saw tooth wave
Vibration	MIL STD 810 514.5C-3 Composite wheeled vehicle profile
Compliance Certification	Emissions: FCC Part 15 Safety: UL 60950
RoHS	EU 2002/95/EC compliant