INfinity 610

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FEDERAL SIGNAL TECHNOLOGIES

IN*finity* 610 ETSI
Ultra High Frequency 865 - 868 MHz

High-Performance, Multi-Protocol Reader

Overview

Supporting the worldwide movement to Gen 2 technology, the IN610 family further advances the market leading performance set by the IN510. This powerful UHF reader system is designed for enterprise class applications and features best-in-class air interface performance. In addition, the robust, software radio-based architecture provides a rich application platform that addresses the needs of today's deployments and ensures that future features and capabilities can be added as RFID technology evolves in the future.

Designed with global operations in mind, the IN610 line has models supporting frequencies and communications standards worldwide. The 865-868 MHz model is suitable for operation within the European Union and other regions compatible with ETSI regulations. The INfinity 610 offers a wide portfolio of configuration and enterprise management tools that changes the paradigm of RFID system installation and management. For the end-user who needs a quick, out-of-the box solution, the INfinity 610 provides an intuitive installation wizard allowing the user to be able to begin reading tags within minutes.

Applications

The IN610 is available in 4- and 8-port versions. Eight port models can support up to eight antennas in mono-static mode or four bi-static (4x2), while the four port device supports four mono-static or two bi-static antennas. The INfinity 610 easily integrates into most supply chain and closed loop UHF installations including dock door portals and conveyor systems as well as point-of-sale, access control and many other applications.

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Operating Characteristics

Management Features:	Rich array of diagnostic and statistical reporting tools, user-configurable alarms, and a host of management features based on industry standard protocols. Allows seamless integration into existing IT infrastructures.
Regional Compatibility:	Regions compatible with ETSI regulations.
Air Interface:	High performance radio and modem subsystems employing sophisticated DSP technology and advanced singulation algorithms that optimize read rates in a wide range of end-user applications.
Adaptive Noise Features:	Intelligent algorithms within the INfinity 610 automatically enable the modem to adapt to the instantaneous noise and interference level, thus optimizing air interface performance and robustness for a wide range of deployment scenarios.
Upgradeability:	Upgradeable firmware permits forward compatibility for future protocols.

Specifications

Frequency:	UHF 865 to 868 MHz
Supported Transponders:	Full support of mandatory and optional features of EPCGlobal Class 1 Generation 2 and ISO18000-6C, including optional user memory and NXP EAS custom commands and Alien's BlockReadLock command. Also supports ISO 18000-6B, and Ucode 1.19 with future protocols supported through firmware updates.
Operating Modes:	Single Interrogator Multiple Interrogator Dense Interrogator
Communications:	10/100 Ethernet Port USB1.1 Type B port Serial Port EIA/TIA-232-F 115 kBaud with hardware handshaking (RTS/CTS), DCE Logical interfaces for Sirit's CLI (providing compatibility with IN510 installations) and EPCGlobal's LLRP v1.0.1
GPIO:	Digital Input/Output Port 4 – optically coupled inputs, 25V max. Controllable input reference 4 – open-collector outputs, 3-40V, 100mA max, 1W max
RF Power:	+31.5 dBm, conducted
Input Power:	24VDC. 10W idle, 18W typical (20W maximum) at 30dBm.
Antenna Connection:	RP-TNC connectors. (reverse polarity)
LED Indicators:	Power, Activity, Environment/User, Status
Upgradeable Firmware:	Yes
Operating Temperature:	-20°C to 55°C (-7°F to 131°F)
Relative Humidity:	5 to 95%, non-condensing
Dimensions (LxWxD):	9.72 x 7.25 x 2.2 in (246.7 x 184.15 x 55.6 mm)
Weight:	4.5 lbs (2.1 kgs)
Regulatory:	Compliant to RoHS, ETSI EN 301 489, ETSI EN 302 208 and IEC 60950
Case Material:	Aluminum

About Sirit Inc.

Sirit Inc. is a leading provider of Radio Frequency Identification (RFID) reader technology to OEMs and solution providers worldwide. Harnessing the power of Sirit's enabling-RFID technology, customers are able to more rapidly bring high quality RFID solutions to the market with reduced initial engineering costs. Sirit's products are built on years of RF domain expertise addressing multiple frequencies (LF/HF/UHF), multiple protocols and are compliant with global standards. Sirit's broad portfolio of products and capabilities are easily customized to address new and traditional RFID market applications including Supply Chain & Logistics, Cashless Payment, Access Control, Automatic Vehicle Identification, Inventory Control & Management, Asset Tracking and Product Authentication. For more information, visit www.sirit.com.

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