

IF1C

Fixed Mount RFID Reader Series

The IF1C Fixed Mount RFID readers (transceivers) offer cost-effective and flexible options designed for applications that require durability and reliability. Developed specifically for use in electronic toll collection, traffic and vehicle registration monitoring, vehicle parking and access control operations, Solid Waste management and Vehicle Mount operations, the IF1C series is ideal for any single and two-antenna application, where RFID technology is used to automate processes.

The IF1C is a family of integrated antenna and two-antenna port readers with Honeywell-designed radio frequency (RF) platform offering superior read performance. Packaged in a small IP66-rated enclosure, the IF1C series offers flexible options designed to reduce project costs, decrease installation time, and improve overall system reliability.

An integrated antenna option of the IF1C encloses reader electronics, an internal antenna, and a port for one external antenna. This results in a compact, fully integrated, ruggedized, and reliable RFID installation. An alternative IF1C configuration features reader with two antenna ports for applications requiring two external antenna. A variety of external antennas from Honeywell, including Linear / Circular Polarised antenna housed in the IF1C enclosure, support the requirements of nearly any environment and application.



FEATURES

- **Fully Integrated RFID System:**

By eliminating the need for additional antenna cables, power cables, and external controllers, the IF1C reader system has fewer points of failure and fits inconspicuously into small spaces, making the reader less visible to consumers and the general public.

- **Power over Ethernet (PoE) Support:**

The IF1C readers support Power over Ethernet (PoE) for scalable deployments, without the cost of adding electrical drops where AC line power is not available or practical.

- **Software Hosting Capability:**

With on-board application memory, the IF1C is capable of hosting software applications on the reader, increasing system reliability and eliminating the cost of installing and maintaining a separate application server.

- **On-Board GPIO Option:**

The IF1C allows for direct monitoring and controlling of peripherals such as presence detectors and signal lights, without requiring extra devices and power supplies to facilitate the connection.

- **Class-Leading Durability:**

The IF1C series is IP66-rated when properly sealed with the IP66 Ethernet cable housing kit, making it the smallest, most durable high-performance integrated reader available in the market.

- **Flexible Mounting Options:**

The IF1C housing could be mounted using standard 75 mm and 100 mm VESA mounting brackets, which is easily available.

IF1C Technical Specifications

MECHANICAL	
DIMENSIONS (LXWXH)	Integrated antenna option: 265 mm x 186 mm x 75 mm (10.2" x 7.3" x 3.0") 2-port option: 265 mm x 186 mm x 59 mm (10.2" x 7.3" x 2.3")
WEIGHT	1.6 kg (3.5 lb)
ELECTRICAL	
INPUT POWER	802.3af Power over Ethernet
DC ELECTRICAL RATING	44V, 0.35A
GENERAL PURPOSE INPUT/OUTPUT (GPIO)	2 inputs, 2 outputs (configurable to Wiegand outputs)
COMMUNICATIONS	10/100 BaseT Ethernet, Wiegand, USB & RS-232 for configuration
ENVIRONMENTAL	
ENVIRONMENTAL SEALING	IP66 with Ethernet cable housing kit and IP66 compliant DB15 connector cable when in use
OPERATING TEMPERATURE	-20 °C to 65 °C (-13 °F to 149 °F)
STORAGE TEMPERATURE	-30 °C to 75 °C (-22 °F to 167 °F)
HUMIDITY	10% to 95% relative humidity, non-condensing
RF CHARACTERISTICS	
FREQUENCY RANGE	865-867 MHz, factory configured
READ RANGE	Around 13m read distance for ARAI Certified FASTags
TRANSMIT POWER	Up to 30 dBm (1 W)
INTERNAL ANTENNA	7 dBiL integrated linear antenna 6.5 dBiC integrated circular antenna
SOFTWARE	
UHF TAG PROTOCOLS	EPCglobal UHF Class 1 Gen 2 (Versions 1.x and 2), ISO 18000-6C, 128-bit AES/ GRAIN cryptographic security extensions
OPERATING SYSTEM	Linux
APPLICATION INTERFACE	Basic Reader Interface (BRI), EPCglobal Low-Level Reader Protocol (LLRP)
APPLICATION SUPPORT	Java, C#, .NET Resource Kit for BRI
USER MEMORY	64 MB

IF1C Ordering Information

SL. NO.	PART NO.	MODEL NAME	DESCRIPTION
1	IF1C1LH71E043	IF1C-1	IF1C-1,1EXANT,1LPANT,GPIO, 865-867MHZ
2	IF1C1CR61E043	IF1C-1	IF1C-1,1EXANT,1CPANT,GPIO, 865-867MHZ
3	IF1C20000E043	IF1C-2	IF1C-2,2EXANT,GPIO, 865-867MHZ

For more information

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