Product profile

IF30

Fixed Reader

- **Dense reader mode enables superior adjacent dock door reading**
- **Conveyor reading up to 1600 fpm**
- **Directly monitors and controls presence detectors and signal lights**
- **Multi-protocol reading and writing of UHF RFID tags**
- **Factory configurable to operate in 865MHz, 869MHz or 915MHz RFID bands**
- **On-board device management**
- **Built in power supply**

The IF30 is a cost-effective, high performance fixed reader that reliably reads and writes UHF RFID tags in "RF noisy" environments. The IF30's receive sensitivity enables large populations of tags to be interrogated at high speeds, which is critical to many use cases involving dock doors, portals and conveyors. In addition to reading tags at distances over 15 feet (4.6 meters), the IF30 can filter tag data to prevent sending redundant information to the host system.

With best in class Dense Reader Mode performance, the IF30 fixed reader allows users to grow their RFID operations to include multiple dock doors in close proximity, thus enabling accurate, automated receiving and shipment verification. This drives more effective put away processes.

Increased receive sensitivity allows the IF30 to interrogate weaker/unreadable tags that often lead to expensive exception handling processes and slower supply chain throughput.

Unlike all competitors, the IF30 has a built-in power supply and 4 mono-static RF ports which reduce the costs and complexity at installation with fewer component pieces to complete the overall solution.

Continuing to focus on keeping the costs of ancillary equipment and installation low, the IF30 fixed reader includes powered general purpose input/output (GPIO) circuitry, which allows direct monitoring and/or controlling of peripherals such as presence detectors and signal lights without requiring extra devices and power supplies to facilitate the connection.

Intermec SmartSystem® Foundation, a device management system included on the IF30, lets you view and configure all of the settings contained in the device from one convenient location allowing for a quicker set-up.

SmartSystems-enabled devices appear on an administrator's console, providing real-time visibility to device status and information, and centralized access to remote devices like the IF30 reader.

The intuitive console allows administrators to change device settings, send firmware upgrades, update software applications, and execute other changes directly from the console to save time and significantly cut costs.

The IF30 reader is also supported by Intermec's RFIDeploy Services which

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provide process analysis, site analysis and installation. By deploying the full suite of services, your system performance will be guaranteed for 18 months, or you may simply select the service that will facilitate the completion of your RFID roll out.

In support of a global supply chain, the IF30 is FCC and ETSI certified, and is factory configured to operate in RFID frequency bands 865MHz, 869MHz and 915MHz.

Physical Description
The IF30 is an UHF fixed reader that can be factory configured to operate in RFID frequency bands: 865MHz, 869MHz and 915MHz. In addition to performing both read and write functions, the IF30 has built in general purpose input output (GPIO), 4 mono-static RF ports and a built-in power supply.

Physical Characteristics
Length: 32.35 cm (12.74 in)
Width: 22.60 cm (8.90 in)
Height: 8.25 cm (3.25 in)
Weight: 6.75lbs (3.06 Kg)

Environment
Operating Temperature: -20°C to 55°C (-13° F to 131° F)
Storage Temperature: -30°C to 75°C (-22° F to 167° F)
Humidity: 10% to 90% (Non-condensing)
Enclosure: IP53

Standard Features
Communications Interface options: Ethernet 10/100BaseT and RS232 for configuration
Configuration: Internal web Graphical User Interface (GUI)
General Purpose Input/Output (GPIO): Four input (0-40VDC) and four output (0-48VDC .25 amp) circuits, 500ma 12VDC power

Antenna Connections
Four – Connectors: FCC-Reverse SMA. ETSI Standard SMA, 30 dBm to 10dBm RF power output software controlled

Power
110-240 VAC auto ranging
Power Supply is internal and included
Duty Cycle: 100%

RFID Frequency Ranges
865, 869 and 915 MHz

Tag Air Interfaces
Fairchild G1
ISO 18000-6b
ISO 18000-6c
Philips Version 1.19
EPCglobal UHF Gen 2

Application Protocols
ANSI INCITS 256:2001
Intermec Basic Reader Interface

Connectivity
Ethernet IPv4 & IPv6
RS232 for configuration

Software
Syslog Client
HTTP/HTTPS Web Server
TFTP Client
DHCP Client
DNS Client
SNTP Client

Security
OpenSSL
Radius configuration login

Device Management
SNMP
Intermec SmartSystems™ client
Wavelink Avalanche™ Client

Accessories
Antennas, antenna cables, mounting bracket

Standards
AIAG B-11
ANSI MH10.8.4
ISO/IEC WD18000 Part 6
IF30 uses the IM5 module, which is EPC Certified Compliant and EPC Certified Interoperable.

Restrictions on Use
Some approvals and features may vary by country and may change without notice.
Please check with your local Intermec sales office for further information.

Disclaimer
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