IF5

Fixed Reader

- An intelligent reader capable of hosting applications

- Software configurable to read and write EPC Gen 2 and ISO tags

- Operates in ETSI 865-868 MHz, or FCC 902-928MHz

- Monitors and controls presence detectors and signal lights

- Built in Java Script workbench for rapid application development

- Deployment services

- Ethernet and WiFi

- Built in device management

- Internal power supply

Joining an already diversified line of RFID readers, the Intermec IF5 is a fixed "smart" reader that filters information from tags, monitors external sensors and controls audible/visual indicators, without the expense, and potential point of failure of a separate server "box", required by other RFID scanning solutions. As with all Intermec reader products, the IF5 both reads and writes to RFID tags.

Filtering Information
Filtering incoming tag data means sending only pertinent information upstream to the host. The IF5 filters, manages and acts upon the data read from tags according to application parameters, all made possible by internal Java or Java Script applications. The Java application can also be programmed to change the configuration parameters of the IF5 in response to new incoming data from a tag or peripheral device. For example, a dock door portal – mounted IF5 reader can be programmed to scan the "destination" field on all tags passing through, and subsequently flash a red beacon light for the fork lift driver if an item is about to be incorrectly loaded.

Monitor Sensors/Visual Indicators
The IF5 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.

Development and Device Management
For rapid application development, Intermec provides development libraries for .Net and Java on Microsoft operation systems. Developers simply write the application once and have the capability to port it over to different RFID devices such as Intermec mobile and vehicle mount computers. Intermec SmartSystem Foundation, a remote management system, comes standard on the IF5. An intuitive administrator's console provides centralized access to remote devices like the IF5 reader. Administrators can change device settings, send OS upgrades, update software applications, and execute other changes directly from the console to save time and significantly cut costs.

Ethernet and WiFi
The IF5 comes standard with an internal auto-range power supply, IPv4 and IPv6 plus an optional 802.11b/g CCX certified radio enabling seamless integration into existing Ethernet or WiFi infrastructures. The IF5 is straightforward to integrate and capable of continuous operation anywhere in the world.

Deployment Services
Ensure success with your RFID system by utilizing Intermec's deployment services Intermec's deployment services can assist in initial process analysis and site analysis to full site installations.

Intermec®

Physical Characteristics
Length: 35.6 cm (14 in.)
Width: 23.1 cm (9.1 in.)
Height: 9.53 cm (3.75 in.)

Environment
Operating Temperature: -25°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 or Wireless 802.11g
Configuration: Internal web Graphical User Interface
(GUI)
Input/Output Circuits: Four input (0-40VDC) and four
output (0-48VDC .5 amp) circuits, 500ma 12VDC power

Antenna Connections
Four - Reverse SMA, -20dB software controlled

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

RFID Frequency Ranges
ETSI 865-868 MHz, or FCC 902-928MHz

Tag Air Interfaces
Intellitag G1 (Fairchild G1)
ISO 18000-6b (Philips i-code HSL)
Philips Version 1.19
EPCglobal UHF Gen 2

Protocols
ANSI INCITS 256:2001
Intermec Basic Reader Interface

Connection to Network
Ethernet, 802.3 wired and optional 802.11g

Software
• IP v6
• SAMBA Client
• NFS Client
BusyBox
• Telnet Server
• Syslog Client
FTP Server
PCMCIA Card Services
OpenSSL
J2ME/CDC
Service Management Framework
SAP-Auto ID Infrastructure (AII)
Intermec Network Apps
• HTTP/HTTPS Web Server
• TFTP Client
• DHCP Client
• DNS Client
• SNTP Client
• 802.1x Supplicant (used with 802.11)
Intermec Developer Library
Intermec Data Collection Engine
Optional WebSphere Everyplace Device Manager (IBM)
Optional J2SE (SUN)
Java Virtual Machine
Java Script Interpreter

Device Management
SNMP
Intermec SmartSystems client
Wavelink Avalanche Client

Development
Built in Java and Java Script, Intermec Development
Libraries for Java and .Net

Memory
32 Mbytes of SDRAM, 16 Mbytes Flash

Accessories
802.11g radio, antennas, antenna cables, mounting
bracket, Compact Flash card

Standards
AIAG B-11
ANS INCITS 256:1999 (R2001) - Parts 2, 3.1 & 4.2
ANSI MH10.8.4
ISO/IEC CD18000 Part 4
ISO/IEC WD18000 Part 6

Part Number
IF5UC20380400004 - RFID Reader, Fixed, EPC global
Gen 2 only, FCC, Ethernet (this is one of multiple unique
configurations)

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.

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