

## Product Profile

- 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



### IF5 FIXED READER

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.

**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 (All)  
 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 &amp; 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.

**Disclaimer**

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