

IF4

IF4 Serial RFID Reader



- An intelligent peripheral – capable of internal filtering to reduce network traffic
- Software configurable to read/write EPC Class 1, EPC Gen 2 and ISO tags
- Factory configurable to operate in 865MHz, 869MHz, 915MHz or 950MHz RFID bands
- Directly monitors and controls presence detectors and signal lights
- Downloadable firmware for migration path to ISO 18000-6c

Joining a diversified line of RFID readers, the Intermec® Intellitag® IF4 serial reader is the ideal RFID peripheral for applications where an edge server or Programmable Logic Controller (PLC) is used for process control. The IF4 reduces the communications burden on the network and processing demand on the host PLC.

While reading and writing RFID labels and tags, the IF4 uses an air-interface protocol for filtering out unneeded tag data caused by multiple reads and tags not required for the application.

General purpose input/output (I/O) circuitry enables the IF4 to monitor and/or control peripheral devices while keeping the cost of ancillary equipment and installation down.

After the IF4 controls the selection of appropriate tags for reading, it then combines its pre-configured application parameters with the information from the selected tags in order to activate external sensors as well as control audible and visual indicators.

For example, an IF4 reader mounted above a conveyor can be programmed to scan the destination field on all tags passing by and subsequently report that code to

the PLC, which can then actuate diverter mechanisms to route the tagged package to the proper dock door.

RFID standards are continuing to evolve, which requires manufacturers and retailers to have multi-protocol reading capability if they are implementing RFID in an open supply chain. When fully equipped, via firmware downloads, the IF4 can read multiple air interface protocols, even in mixed populations of tags, including EPC UHF Generation 2 (Gen 2), ISO 18000 6-b and EPC Class 1.

The IF4 reader is factory configured to operate in either of two regional RFID frequency bands: 865 and 869MHz (Zone 1, primarily Europe), or 915MHz (Zone 2, primarily North and South America, with parts of Asia and Pacific Rim). Multi-national enterprises operating in North America, Europe and Asia no longer have to purchase and support multiple readers in order to cope with the different frequency bands present in each region. The IF4 readers have a common design with band-specific hardware, and are supported with common “soft radio” code.

An external auto-range adapting power supply, requiring approximately 2 watts

of 95 to 250 Volts AC, allows the IF4 to be capable of continuous operation anywhere in the world.

The Basic Reader Interface included with IF4 simplifies the control of RFID interrogators with text-like command/response protocol that is portable to many platforms, easy to learn, optimize and support.

Physical Description

The Intellitag IF4 Serial Reader, available in 865, 869, and 915 MHz bands, is a rugged radio frequency identification (RFID) reader appropriate for use in indoor industrial environments.

Physical Characteristics

Length: 19.1 cm (7.5")

Height: 6.6 cm (2.6")

Width: 13.5 cm (5.3")

Standard Features

Input/Output Circuits
13 pin DIN connector
Four input and four output circuits for monitoring and controlling external devices through the reader

Antenna Connections

4 connectors - reverse or standard SMA
Selectable by software; RF power attenuation software selected

Options

RFID Frequency Options
86x MHz Band
915 MHz Band

Communications Interface - RS232

Accessories

Power Supply
Input: 90-260VAC, 50-60Hz
Output: 9VDC, 2.6ADC
Country specific power cables.
FCC & ETSI Antennas and cables

Environment

Operating Temperature: -20°C to 55°C (-4°F to 131°F)

Storage Temperature: -40°C to 85°C
(-40°F to 185°F)

Humidity (non-condensing): 10% to 95%

Shock: 10 G, 11ms, half sine pulse
(operating)

Vibration: 1.0 GRMS, 10 to 500Hz, 3 axis (operating)

Regulatory Approvals and Standards

ANS INCITS 256:1999 (R2001) - Parts 2, 3.1 & 4.2

ANSI MH10.8.4

ISO/IEC 18000-4

ISO/IEC 18000-6b

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

Intermec reserves the right to make changes without notice to any products herein for any reason at any time, including but not limited to improving the reliability, form, fit, function or design. Please contact Intermec for current price list and availability.

North America

Corporate Headquarters

6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

South America & Mexico Headquarters Office

Newport Beach, California
Phone: (949) 955-0785
Fax: (949) 756-8782

Europe/Middle East &

Africa Headquarters Office

Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific

Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet

www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales

Toll Free NA: (800) 934-3163
Toll in NA : (425) 348-2726
Freephone ROW: 00 800 4488 8844
Toll ROW : +44 134 435 0296

OEM Sales

Phone: (425) 348-2762

Media Sales

Phone: (513) 874-5882

Customer Service and Support

Toll Free NA: (800) 755-5505
Toll in NA : (425) 356-1799

Copyright © 2007 Intermec Technologies Corporation. All rights reserved. Intermec is a registered trademark of Intermec Technologies Corporation. All other trademarks are the property of their respective owners. Printed in the U.S.A. 611654-01B 03/07



In a continuing effort to improve our products, Intermec Technologies Corporation reserves the right to change specifications and features without prior notice.



800 729 0236
www.logiscenter.us



0241 9550 9225
www.logiscenter.de



01 82 88 44 70
www.logiscenter.fr



020 3318 8265
www.logiscenter.co.uk



0720 115814
www.logiscenter.at



02 58 80 583
www.logiscenter.be



911 433 048
www.logiscenter.com



02 4792 1697
www.logiscenter.it



308 800 842
www.logiscenter.pt

About LOGISCENTER

Logiscenter is the leading provider of automatic identification and data capture equipments. Our products include barcode printing and reading devices, mobile computing devices, wireless access points, identification cards, and consumables.

Reasons to work with us

Our customers come first. Our objective is not only selling our products but also holding a long-lasting relationship with our customers, based on the benefits and advantages we create for you and your company.

The best brands. We offer products from the best manufacturers worldwide.

Expert technical support team. Our support staff are experts in the products we sell. But not just the products, they can tell you the best solution for your particular problem or need.

Largest stock. We have a permanent stock of more than 60,000 products.

Same-day shipping. For all orders placed and confirmed before 16:00 on working days.

Best prices. With Logiscenter, you can be sure that you are paying a fair price for your products, we will not overcharge you.

Easy returns. Damaged or defective products can be returned easily, for an exchange or reimbursement.



All Brands Technical Service

Our Brands

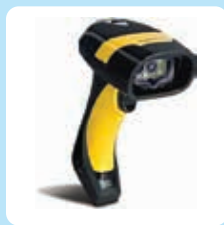


MOTOROLA

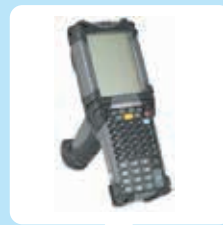
Solutions for: Industry • Consumer • Mobility Transportation and Logistics • Retail • Health



Label printers



Barcode readers



Data terminals & PDA



PVC card printers



RFID



Consumables
(labels, ribbons, PVC cards)