

IF2B

Network Reader

The Honeywell IF2B is a compact, cost-effective network reader designed to support diverse RFID applications in both enterprise and industrial environments that require a scalable RFID system with a low cost per read point. The IF2B is based on an Honeywell-designed radio frequency (RF) platform that offers best-in-class read performance and includes support for Honeywell's exclusive Advanced RFID Extensions (ARX), helping customers achieve a new level of visibility to the identification of RFID tags for greater accuracy of reading tags of interest over readers utilizing less-versatile commodity chipsets.

Packaged in a small and lightweight, yet durable enclosure, the IF2B is suited for nearly any environment, including industrial warehouse and manufacturing operations and enterprise environments for asset and inventory management applications.

With a focus on keeping the cost of ancillary equipment and installation low, the IF2B Network Reader includes features that reduce the costs and complexity of the overall solution. Not only does the low-profile enclosure with integrated mounting slots allow the IF2B to be easily installed in virtually any environment, the IF2B also supports Power over Ethernet (PoE) for scalable deployments without the cost of adding electrical drops where AC line power is not available or practical. An optional DC converter is available to support conventional wall power. Either power method supports the full RF output power capability of the IF2B (up to 30 dBm).

Because the general purpose input/output (GPIO) circuitry can be powered directly through either PoE or the DC power converter, the IF2B 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.

Further reducing installation and equipment costs, the IF2B's four antenna ports can be configured to transmit in either mono- or bi-static mode, increasing the flexibility of the system to achieve the best results for the application and environment. A variety of antennas from Honeywell's extensive product line supports diverse applications, versus integrated antenna readers that include one type of antenna and limit the flexibility of applications and deployment.



Reduces System and Deployment Costs for Large and Small Installations. The IF2B is a compact, cost-effective network reader designed to support diverse passive UHF RFID applications in both enterprise and industrial environments. The IF2B supports Power over Ethernet, four mono- or bi-static RF ports, built-in powered general purpose input output (GPIO) control, and both standards-based LLRP and easy-to-use Basic Radio Interface (BRI) application interfaces, enabling scalable low-cost deployments for improved return on investment (ROI). The IF2B is packaged in a durable enclosure for nearly any environment and is factory configured to operate in regions across the globe.

Kreski

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Więcej informacji: www.kreski.pl

FEATURES & BENEFITS



Advanced performance in a compact and cost-effective design, with a low cost per read point for superior ROI. Choice of Power over Ethernet lowers cost of installation.



Easily deployed and managed on common networks service plan.



Directly monitors and controls peripherals without extra equipment.



Expanded memory option hosts applications written in Java®, Java Script, or C# .Net.



Factory configurable to operate in world regions supporting FCC or ETSI frequency bands.

IF2B Network Reader Technical Specifications

PHYSICAL

Length: 18.85 cm (7.42 in)
Length w/splash guard: 19.9 cm (7.87 in)
Width: 16.31 cm (6.42 in)
Height: 4.32 cm (1.70 in)
Weight: 1.0 kg (2.2 lbs)
LED Status Indicators: RFID service, power, PoE, Ethernet, tag detection, and antenna port connection status

ENVIRONMENTAL

Operating Temperature: -25 to 55°C (-13 to 131°F)
Storage Temperature: -30 to 70°C (-22 to 158°F)
Relative Humidity: 5% to 95% (non-condensing)
Enclosure: IP53 sealing, Die cast magnesium base, Lexan plastic cover

CONNECTIVITY

Communications: 10/100 BaseT Ethernet RS-232, USB for configuration
Input Power: PoE (802.3at compliant) DC power input (12 VDC +/-5%, 30W), sealed/locking connection. Requires optional Honeywell 100/240 VAC converter

GENERAL PURPOSE

Input/Output (GPIO): Four input (0 to 40 VDC) and four output (0 to 48 VDC, 0.25 amp) circuits, powered via PoE or DC input (500 mA, 12 VDC)

RF CHARACTERISTICS

Antenna Connections: Four reverse-polarity (RP) TNC ports configurable for mono- or bi-static operation. Antenna fault detection and auto tuning for best performance

Output Power: 1 to 30 dBm, configurable in 1 dB steps (calibrated above 9 dBm)

Frequency Ranges: FCC (902-928 MHz) and ETSI (865-868 MHz), factory configured

SOFTWARE PLATFORM

Passive UHF Tag Protocols:

ISO 18000-6B
ISO 18000-6C
EPCglobal UHF Class 1 Gen 2

Tag Features:

NXP G2X, Impinj Monza 4QT extensions
High memory tags (Fujitsu, Tego, ATA)

Host Application Protocols:

EPCglobal LLRP
Honeywell Advanced RFID Extensions (ARX)
Honeywell Basic Reader Interface (BRI)
Honeywell Developer Library (IDL) resource kit for BRI (Java, C#, .NET)

Management and Configuration:

Bonjour
Universal Plug and Play (UPnP)
Honeywell SmartSystems client
Honeywell Web Services and Web Configuration Interface
Network Protocols:
HTTP/HTTPS Web Server
IPv4, IPv6
DHCP, DNS, NTP, Syslog

OPTIONAL EXPANDED MEMORY

Support for embedded C#, .NET and Java applications
96 MB of flash application memory
96 MB of flash data storage
64 MB of available RAM

SECURITY

FIPS 140-2 compliance for HTTPS, LLRP-secure, and Web Services (DCWS)-secure
RADIUS client support
SSL Certificate support

ACCESSORIES

Honeywell approved antennas, antenna cables

REGULATORY APPROVALS AND COMPLIANCE

Model: IF2
Safety: IEC/UL 60950-1
EMC: Class B – FCC/ICES/EN

RESTRICTIONS ON USE

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

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

The IF2B supports standard network device protocols, including autodiscovery and network service protocols, enabling seamless integration with common network infrastructures.

Supporting the standards-based LLRP application interface, the IF2B can quickly integrate with business solutions such as IBM® WebSphere® RFID and Microsoft® BizTalk® RFID, providing a scalable standardized platform for the development, deployment, and management of RFID solutions. The IF2B also supports the easy-to-use Basic Reader Interface (BRI), enabling customers and partners to quickly and seamlessly include the IF2B in their solutions.

Honeywell SmartSystems™ Foundation allows administrators to change device settings, send firmware upgrades, update software applications, and execute other changes on multiple devices directly from a centralized console to save time and cost for deploying, configuring, and maintaining the hardware.

Honeywell's Advanced Services can provide process analysis, site analysis, installation and an 18-month guarantee of system performance.

In support of global operations, the IF2B is certified in regions across the globe and is factory configured to operate in the corresponding RFID frequency band.



Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl

For more information

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