IP2L

Snap-on LF/UHF RFID Reader

- **Easy snap-on installation to Intermec CN70 and CN70e mobile computers**

- **UHF RFID protocol support (EPCglobal Class 1 Gen 2, 902-928 MHz)**

- **LF RFID protocol support (TI TIRIS, 134.2 kHz)**

- **Adds RFID functionality without compromising any computer features, including all wireless network options**

- **Powered from the host computer, no additional battery required**

- **Pass-through connection enables docks and chargers without removing the reader module**

- **Optional UL Class I, Division 2, non-incendive (NI) rated configuration**

The Intermec IP2L LF/UHF RFID reader is a snap-on peripheral for the Intermec CN70 and CN70e mobile computers, providing dual UHF and LF RFID capability. As a leader in RFID technology and rugged mobile computers, Intermec continues to enable comprehensive automatic identification and data capture (AIDC) solutions with mobile RFID. For asset tracking and maintenance verification applications, either inside the four walls or in the field, the IP2L enables short-range LF or UHF RFID reading without compromising the full feature set of the CN70 and CN70e mobile computers, including advanced bar code scanning, GPS location association, and communication via multiple network radios, including the latest wireless WAN (cellular) technologies.

The durable IP54 environmental rating and optional UL Class I, Division 2 non-incendive configuration allows the IP2L to be used in rough, demanding field environments. Combining two RFID technologies, the IP2L supports traditional LF and UHF applications and mixed environments

of both tag types, making the IP2L ideal for mobile, field-based asset tracking and maintenance verification solutions in oil and gas, heavy industrial and other field service market segments.

As a snap-on module, the reader can be added to an existing fleet of mobile computers without compromising any of the features of the host mobile computer. With support for Wi-Fi and wireless WAN connectivity through the CN70 or CN70e mobile computer, the IP2L supports a data connection nearly anywhere and enables GPS location association for real-time asset, source and service tracking.

The IP2L adds to Intermec's comprehensive line of mobile RFID readers. The reader is suitable for short-range applications where WWAN network connectivity is required. For long-range applications, the IP30 handheld RFID reader is best suited, and for medium to long-range applications that do not require WWAN, the 70 Series RFID is the ideal family of fully-integrated RFID-enabled mobile computers.

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Physical Description
The IP2L Snap-on LF/UHF RFID Reader enables short-range LF and UHF RFID reading without compromising the full feature set of the Intermec CN70 or CN70e mobile computer, including wireless WAN connectivity. The IP2L has an NI rated option and meets FCC compliance standards for use in the US and Canada.

Physical Characteristics (without handheld computer)
Dimensions (L x W x D): 6.38 x 7.95 x 3.4 cm (2.51 x 3.13 x 1.34 in)
Weight: 112.6 gm (4 oz)

Environmental Specifications
Operating Temp: -20° C to 50° C NI/60° C non-NI (-4° F to 122° F NI/140° F non-NI)
Storage Temp: -30° C to 70° C (-22° F to 158° F)
Humidity: 10 to 95% (non-condensing)
Enclosure: IP54 compliant
Drop Survival: Withstands 4 foot drop (1.3m) 26 times to concrete Mil-Std-810F
Non-incendive (NI) Option*: Class I, Division 2, Groups A, B, C, D

Handheld Computer Compatibility
Supported Models: Intermec CN70, CN70e, CN70 NI*, CN70e NI* (all options)
Attachment: Snap-on to host computer with latching arms
Communication Interface: USB docking interface to host computer
Docking: Maintains docking capability with the Intermec FlexDock Modular Docking System for charging and Ethernet connectivity
Power: Powered from host computer
LED indicators: Read and write notifications available through host computer LED

UHF RFID Reader
Frequency: UHF 902-928 MHz
Tag Protocol Support: EPCglobal Class 1 Generation 2/ISO 18000-6C (read and write)
RF Output Power: 6 to 25 dBm
Antenna Orientation: Forward-facing directional, radiating from the back plane of the reader.
Typical Read Range (tag dependent): Up to 45 cm (18 inches)

LF RFID Reader
Frequency: LF 134.2 kHz (half duplex)
Tag Protocol Support: Texas Instruments TIRIS (read only)
Typical Read Range (tag dependent): Up to 3 cm (1 inch)

Software
Use of this snap-on with the CN70/70e requires OS version 1.50.19.0013 or higher
Demonstration software available
Common Basic Reader Interface (BRI) API with Intermec's RFID reader portfolio

Part Numbers
NI Rated*: 850-832-0xx
Non-NI Rated: 850-832-5xx

* For NI environments, customers must use both the NI-rated IP2L and an NI-rated CN70 or CN70e

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