IH21

Handheld UHF RFID Reader

SISTEMI ID
www.sistemiid.it

Today's retailers are facing pressure like never before to better track their inventory and ensure that their stores are always adequately stocked and replenished to meet increasingly sophisticated customer expectations – all with fewer employees and resources.

The IH21 is the ideal handheld RFID reader for use with Honeywell mobile computers when high-performance RFID reading in a compact, lightweight package is required.

Many are looking to Honeywell's mobile computing, scanning, and RFID technology to help streamline the process and increase their efficiency and productivity.

The Honeywell IH21 handheld RFID reader, when paired with a Honeywell handheld computer, is designed to provide best-in-class performance for reading large numbers of RFID tags quickly and accurately. With a successful track record in apparel retail, inventory management, and other workflows, the IH21 RFID reader employs an advanced antenna design that allows it to read tags positioned in front of the antenna with a high degree of accuracy – simply point it in the general direction of the items to be read and pull the trigger. All items within range will be read nearly simultaneously, speeding inventory processes up to 20 times faster than using barcodes.

The IH21 unit includes an improved RFID reader module, the ability to connect to the mobile computer via USB or Bluetooth®, and the ability to charge both the RFID reader battery as well as the connected mobile computer battery using the IH21 reader charge base.

The IH21 RFID reader is compatible with Honeywell D75e, CT40, or ScanPal™ EDA50 mobile computers, offering an ergonomic, sleek profile for use in retail in-store or back-room inventory or picking applications such as inventory cycle counts, omnichannel order fulfillment, receiving new product, or pick lists. When paired with the CT60 mobile computer, the IH21 reader can be used for direct store delivery, dock receiving, or back-of-truck inventory tasks.

FEATURES AND BENEFITS

Industry-standard EPC Global Class 1 Gen 2, RAIN RFID reader ensures that the IH21 can read all common supply chain RFID tags.

A lightweight and ergonomic design makes the IH21 reader suitable for all users.

A fast RFID reader module combined with a versatile antenna design enables reading more tags in less time.

Simultaneous charging of the IH21 reader and the connected mobile computer streamlines operations and reduces maintenance of mechanical components.

Honeywell

IH21 Technical Specifications

RFID

Standards: EPC Global Class 1 Gen 2
Antenna: Right hand circular polarized
Field: 150° forward-facing
Frequency Ranges:
- **EU:** 865–868 MHz
- **US:** 902–928 MHz

Nominal Read Range : 6 m (20 ft)
Nominal Write Range: 3 m (10 ft)
Output Power: 10 mW – 1 W, 10 dBm – 30 dBm

COMMUNICATIONS

Bluetooth:
- V.4.2, +12 dBm
- SPP Profile, HID Profile, iAP2
- Bluetooth Classic and Low Energy (BLE)

Bluetooth Range: 10 m (32 ft)
Bluetooth Pairing: PIN, Simple Secure Pairing, NFC OOB Pairing
USB: Communicates with select mobile computers via ePop-Loq® case

POWER

Battery Pack: Removable, rechargeable 4.2 V Lithium Polymer 2200 mAh, 8.4 watt hours

CHARGING

Charge Base: IH21-CB-1 provides dual charging of the IH21 RFID reader and connected mobile computer
4-Slot Battery Charger: IH21-QBC-1 provides simultaneous charging of up to four batteries

PHYSICAL CHARACTERISTICS

Dimensions:
- **Without Mobile Computer or ePop-Loq Adapter:** 16 cm x 7.7 cm x 17.5 cm (6.3 in x 3 in x 6.9 in)
- **With D75e or CT60 Mobile Computer and ePop-Loq Adapter:** 17.46 cm x 8.89 cm x 17.46 cm (6.87 in x 3.5 in x 6.87 in)
- **With CT40 Mobile Computer and ePop-Loq Adapter:** 17.9 cm x 7.7 cm x 19.4 cm (7.05 in x 3.03 in x 7.64 in)

Weight:
- **Without Mobile Computer or ePop-Loq Adapter:** 365 g (12.8 oz)
- **With D75e or CT60:** 707 g (24.9 oz)
- **With CT40 Mobile Computer and ePop-Loq Adapter:** 718 g (25.3 oz)

ENVIRONMENTAL

Operating Temperature: -10°C to 40°C (-4°F to 140°F)
Charging Temperature: 5°C to 40°C (41°F to 104°F)
Storage Temperature:
- Less than 1 month at -20°C to +45°C (-4°F to 113°F)
- Less than 6 months at -20°C to +35°C (-4°F to 95°F)

Relative Humidity: 5% to 85% non-condensing
Drop Spec: Multiple 1.2 m (4 ft) drops to concrete at ambient temperature; 0.9 m (3 ft) drops across the temperature range
Tumble: 500 tumbles at 0.5 m (1.6 ft) at ambient temperature
Environmental Sealing: IP54
Electrostatic Discharge:
- ±15 kV air discharge
- ±8 kV contact discharge

MIL-STD 810F: Meets and exceeds applicable MIL-STD-810F for drop, tumble, and sealing

MEMORY

Optional Flash Memory Card: Up to 32 GB Micro SD/SDHC
Compatible Handheld Computer Models: D75e, CT40, CT60, ScanPal EDA50

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.

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