Intermec

Product
Profile

- **Mobile RFID read/write capability for the popular 700 Series Mobile Computer**

- **Ideal for exception based scanning**

- **Available for UHF frequency band**

- **Integrated circular polarized antenna reads tags in any orientation**

- **Rechargeable Lithium-ion battery pack for a full shift's work**

- **Durable to withstand the rigors of industrial environments**

IP3 INTELLITAG PORTABLE READER (UHF)

Intermec's expertise in real-world RFID implementations, combined with its knowledge about building rugged handheld devices is reflected in its latest Intellitag® offering, the IP3 Intellitag reader, an accessory handle for attachment to the popular Intermec® 700 Series Color mobile computers. The IP3, the next generation of portable RFID readers from Intermec, delivers first-of-its-kind capability by combining the power of a handheld mobile computing device with three radios, and the ability to read and write to Intellitag RFID tags.

Users of the 700 Series Color mobile computers have posted productivity gains and enjoyed application flexibility enabled by the three radios— personal area (PAN) or *Bluetooth™, local area (LAN) and wide area (WAN)— as well as the area and linear imagers integrated into the handheld device. Combining those capabilities with the IP3, and the strength of the Microsoft® Pocket PC platform, gives users an unheard of flexibility in scanning, data transmission and application computing.

While RFID solutions are ideal for eliminating human intervention and line of sight restrictions in data collection applications, there is always a need for exception-based scanning. The IP3 and 700 Series in tandem deliver a truly mobile RFID solution. It allows the user to take the technology to the work— whether it's on the shop floor, the store floor or the receiving dock, whenever it's more practical to bring the read/write device to the tagged object rather than moving tagged objects passed a fixed reader.

For example, applications requiring a search for a specific item are made easier by the mobility of the IP3 and 700 Series because the user can bring them to a specific location to execute a search. The alternative would be to pass all items considered in the search through a portal equipped with a fixed RFID reader, requiring more time and effort and loss of productivity.

The IP3 reader is ideal for RFID solutions requiring an extended read range, multi-tag sort, read/write, and memory capacity not provided by "proximity" technology.

It can read 105 mm tags from a distance of 1.5 meters using a single antenna at a rate of up to 6 tags per second. The IP3 can retain up to 100 tag IDs in its volatile memory.

But, the power of Intermec's Intellitag RFID technology is in the ability to update data on a tagged item, case or pallet in real time, and possibly many times over, to share with other partners in the internal or external supply chain. The IP3 can perform a verified write at an average rate of 31ms per byte, per tag.

Like all Intermec products, the durability and ergonomics required for rugged mobile computing are designed into every aspect of the IP3. The snap-on, high-impact plastic and magnesium trigger handle reader comes packaged with its own rechargeable battery pack for a full shift's worth of work. A circular polarized antenna is integrated into the handle to read tags in any orientation. The IP3 is ready for integration into supply chain management for retail operations, industrial manufacturing, and logistics applications.

The IP3 is available in the RFID UHF frequency band, and will not interfere with industry-standard PAN, LAN or WAN transmissions occurring in the mobile data collection environment.

Applications standards organizations are adopting Intellitag technology because it is proving to be both practical and reliable in real-world industrial environments that require identification and data capture from multiple, non-uniformly oriented items at ranges in excess of 1 meter.

Physical Description

The IP3 Intellitag® reader handle is a snap-on, high-impact plastic and magnesium trigger handle accessory that adds the capability to read and to write to Intellitag RFID tags to all Intermec® 700 Series Color Mobile Computers.

Physical Characteristics

Weight without 700 Series Color:
.48 kg with battery (1.1lbs)
Weight with 700 Series Color:
1.04 kg with battery (2.3 lbs)
Additional batteries weigh 68 gm (2.4 oz)

Standard Features

Communications Interface:
Infrared data connection to 700 Color

Antenna:
Internal, circularly polarized

Identify, Read & Write Examples*:
Configured for U.S. FCC Part 15 operation at a distance of 50% of the maximum read range.
Identifies up to 6 tags per second.
The reader can retain up to 100 tag ID's in volatile memory.
Reads a tag (8 bytes of data) within 12 ms
Performs a verified write at an average rate of 31ms per byte, per tag

Range Performance Examples*:
With FCC unlicensed operation scanner/programmer and dual antenna configuration. Writes up to 70% of read range.
UHF -- Reads at 1.5 meters with a single antenna and 105-mm tag

* Rates and ranges will vary by tag spacing, movement, mounting surface, surrounding materials, and orientation.

Power:

Removable Lithium–ion battery pack

Accessories:

External battery charger

Environment

Operating Temperature: -20°C to 55°C (-4°F to 131°F)
Storage Temperature: -40°C to 70°C (-40°F to 158°F)
Humidity: 10 to 95% (non-condensing)
Shock: 20 G, 11ms, half sine pulse (operating)
Vibration: 1.0 GRMS. 10 to 500Hz, 3 axis (operating)
The individual packaging will be designed to pass National Safe Transit Association (NSTA) Procedure Project 1A.

Standards

AIAG B-11
ANS INCITS 256:1999 (R2001) - Parts 2, 3.1 & 4.2
ANSI MH10.8.4
ISO/IEC CD18000 Part 4
ISO/IEC WD18000 Part 6

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