

Intermec



Product Profile

- Fixed reader/programmer designed for integration or as option to Intermec 2100 UAP
- Provides RFID data collection integrated into local area network when configured as option to Intermec 2100 UAP
- Spread-spectrum frequency-hopping RFID reader/programmer board set coexists with RF data collection network
- Rugged industrial environment design
- Unlicensed RFID readers and tags using Intellitag UHF OEM products can be integrated for use in applications that require read ranges up to 2.5 meters (8.2 ft)

INTELLITAG[®] MICROWAVE OEM READER

Intellitag reader/programmers are offered for integration into Radio Frequency Identification (RFID) solutions requiring read range, multi-tag sort, read/write, and memory capacity not provided by older, less flexible proximity technology. The fixed reader/programmer board set is designed as an option to the Intermec 2100 Universal Access Point (UAP), but may be integrated into other microcontroller-based systems.

Readers can be programmed for read only or read/write operation. A powerful anticollision algorithm allows up to 40 tags per second to be scanned, regardless of the number of tags in the read zone.

Intermec's Intellitag[®] Business Unit with over a decade of success designing, producing, installing, and supporting RFID solutions worldwide, is developing a range of Intellitag RFID inserts, tags, scanners, and programmer subsystems.

These products are available to Intermec systems integration partners with established RFID applications in supply-chain management, retail operations, manufacturing, logistics, health care, and many more.

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Communications

Frequency:

Intermec 2100 UAP with fixed reader/ programmer module: 2.45 GHz unlicensed FCC spread-spectrum frequency-hopping

Interfaces:

2100 UAP: 10BaseT

Software

Protocols:

Intermec 2100 UAP with fixed reader/ programmer module: available software fully supports the ANS NCITS 256-1999 for item management

Data Rate: Read 8 bytes of data from tag in less than 32 ms

Write a single byte of data to a tag in less than 100 ms

Multi-tag Access: User-specified groups within a population of tags can be selected, read from, and/or written to using multi-tag access commands.

Power Requirements

2100 UAP: 100-240 VAC auto-ranging

Environment

Operating Temperature: 0°C to 50°C (32°F to 122°F)

Storage Temperature: -20°C to 70°C (4°F to 158°F)

Options

General Purpose Input/Output Circuits

(reader/programmer): Interfaces for input and output circuits to monitor sensors and control other devices.

Read/Write Performance

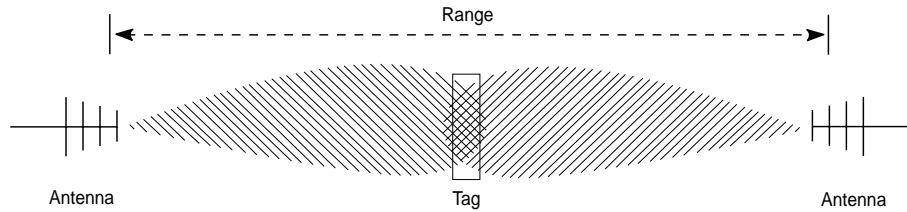
Read/write performance varies with RFID inserts, tags, and antenna configuration. Sample dual antenna configuration is illustrated below.

Read/Write Range: Write ranges are approximately 70% of the effective read ranges of the tag insert and tag.

Read Range Examples: Ranges are listed for RFID insert and tag using frequency-hopping FCC unlicensed operation reader and dual antennas.

1.8 Meters (5.9 ft): 2.45 GHz, 6 x 30 x .5 mm (.24 x 1.18 x .02 in) RFID insert

2.5 Meters (8.2 ft): 2.45 GHz, 10 x 60 x .5 mm (.39 x 2.36 x .02 in) RFID insert



A Portal with Dual Antennas

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