

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 7 meters (22.98 ft)

INTELLITAG® UHF 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.

Communications

Frequency:

Intermec 2100 UAP with fixed reader/ programmer module: 915 MHz 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

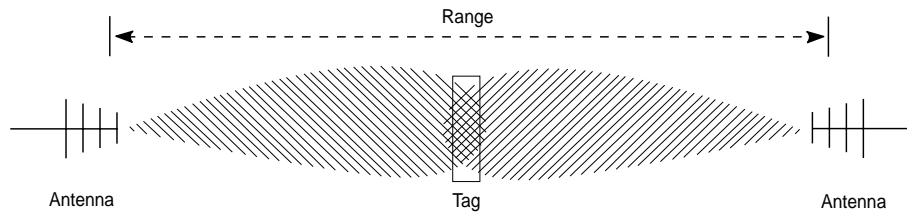
Read/write performance varies with RFID inserts, tags, and antenna configuration. Sample dual antenna configuration is illustrated below.

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.

6 Meters (19.68 ft): 915 MHz, 16 x 100 x .4 mm (.63 x 3.94 x .016 in) RFID insert

7 Meters (22.96 ft): 915 MHz, 33 x 105 x 3 mm (1.30 x 4.13 x .12 in) RFID insert



A Portal with Dual Antennas

North America

Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
tel: 425.348.2600
fax: 425.355.9551

Systems & Solutions

550 2nd Street S.E.
Cedar Rapids, Iowa 52401
tel: 319.369.3100
fax: 319.369.3453

Media Supplies

9290 Le Saint Drive
Fairfield, Ohio 45014
tel: 513.874.5882
fax: 513.874.8487

Europe/ Middle East & Africa

Headquarters
Sovereign House
Vastern Road
Reading, Berkshire RG1 8BT
United Kingdom
tel: +44.118.987.9400
fax: +44.118.987.9401

Gothenburg

Idrottsvägen 10
P.O. Box 123
SE-431 22 Mölndal
Sweden
tel: +46.31.869500
fax: +46.31.869595

Asia

Hong Kong
26-12 Shell Tower
Times Square
1 Matheson Street
Causeway Bay
Hong Kong
tel: 852.2574.9777
fax: 852.2574.9725

Singapore

25-16 International Plaza
10 Anson Road, 079903
tel: 65.324.8391
fax: 65.324.8393

Australia

Level 7, 200 Pacific Highway
Crows Nest NSW 2065
Australia
tel: 61.2.9901.2065
fax: 61.2.9954.6300

South America & Mexico

Latin America Headquarters
17921 B Skypark Circle
Irvine, California 92614
tel: 949.442.9393
fax: 949.757.1687

Mexico

Tamulipas 141, Primero Piso
06140 Mexico, D.F.
tel: 525.55.211.1919
fax: 525.55.211.8121

Worldwide

Fax Document Retrieval Service
800.755.5505
(North America Only)
tel: 650.556.8447

Internet

www.intermec.com

Sales

800.347.2636
(toll free in N.A.)
tel: 425.348.2726

Service and Support

800.755.5505
(toll free in N.A.)
tel: 425.356.1799

Copyright © 2002 Intermec Technologies Corporation. All rights reserved. Intermec is a registered trademark of Intermec Technologies Corporation. All other trademarks are the property of their respective owners. Printed in the U.S.A. 609192-01C 02/02

In a continuing effort to improve our products, Intermec Technologies Corporation reserves the right to change specifications and features without prior notice.