

RD7950 UHF RFID Reader

Rugged, EPC-Compliant RFID Reader



The RD7950 UHF RFID Reader is an EPC-compliant 900MHz RFID reader available for Psion Teklogix rugged handheld computing devices. Because the reader can be retrofitted to existing devices, customers benefit from investment protection with a device that meets the EPC-compliance requirements of Wal-Mart and the U.S. Department of Defense while leveraging existing hardware infrastructures. Multimedia data capture capabilities are delivered by combining RFID with existing technologies such as laser barcode scanning or imaging.



ADVANTAGES

- **Flexibility:** Compatible with EPC Gen 2 Class 0, 0+, Class 1 as well as ISO 18000-6 protocols, the UHF RFID Reader delivers outstanding flexibility. Additionally, the UHF RFID Reader can be integrated with other multimedia data capture technologies, such as bar code scanning or imaging. All of these capabilities can be integrated into a single hand-held device.
- **Investment Protection:** The RD7950 connects to existing, deployed Psion Teklogix products. Consequently, existing infrastructure can be leveraged for the deployment of an EPC-compliant RFID enabled system.
- **Ruggedness:** The rugged design of the UHF RFID Reader delivers overall system uptime for increased productivity even in harsh environments. The UHF RFID Reader module is rated at IP54, protected against dust and water sprayed from all directions. Combined with a 4 foot drop rating to concrete, 26 times, the UHF RFID Reader will keep working even when subjected to harsh impacts.
- **Ergonomics:** Well balanced, lightweight and with an easy to handle pistol grip, the RD7950 is easy to use for a full shift.



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Specifications



STANDARDS COMPLIANCE

- EPC Class 0, 0+, Class 1
- UHF Gen 2
- ISO 18000-6 B
- Legacy units are upgradable to UHF Gen 2



TERMINAL INTERFACE

- 7535
- 7530 (second phase)

PROGRAMMING ENVIRONMENT

- Standard protocol APIs
- Windows sockets (WinCE)



TECHNICAL SPECIFICATIONS

READ DISTANCE

- Class 0, 2x2 tag: 0m – 2.5m (0' - 8')
- Class 0, 11020: 0m – 3m (0' – 10')
- Class 0+ 4x4: 0m – 3.5m (0' – 11')
- Class 1 9238 Squiggle: 0m – 2.5m (0' - 8')
- Class 1 9338: 0m – 3.5m (0' - 11')

Read distance is highly dependant upon tag configuration, material to which the tag is applied and the presence of metal and water around the tag. Metal and water will decrease read ranges significantly.

WRITE DISTANCE

Write distance for Class 0+ and Class 1 tags is approximately 50% of the read distance referenced above.



WEIGHT

- Reader is approximately 670g (23.6 oz)
- Combined weight when attached to 7535 = 1445g (50.9oz)

DIMENSIONS

- Height - 179mm (7.05")
- Width - 151mm (5.94")
- Depth - 115mm (4.53")

ENVIRONMENTAL

- Operating temp: -10°C to +50°C (32°F to 122°F)
- Storage temp: -25°C to +60°C (-13°F to 140°F)
- Humidity: 5-95% RH non-condensing
- Rain/Dust: IEC 529, classification IP54
- Shock: 4' drop to polished concrete multiple times
- Cradle vibration: 1.5g RMS PSD (4 Hz – 500 Hz)

APPROVALS

- Safety: UL 1950, CSA C22.2 No950, LVD EN60950
- EMC: FCC Part 15 Class B, EMC Directive Class B

Specifications are subject to change without notification.