

# Integrated UHF RFID Reader

## Rugged, EPC-Compliant RFID Reader



The Integrated UHF RFID Reader is an EPC-compliant 900MHz RFID reader available for Psion Teklogix rugged hand-held computing devices. Because the integrated 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 bar code scanning or imaging.



**Flexibility:** Compatible with EPC Class 0, 0+ and Class 1 as well as ISO 18000-6 protocols, the Mobile UHF RFID Reader delivers outstanding flexibility. Delivers multimedia data capture capabilities as the Integrated UHF RFID Reader and laser bar code scanning or imaging capabilities can be integrated into a single hand-held device.

**Investment Protection:** The Integrated UHF RFID Reader 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 Integrated UHF RFID Reader delivers overall system uptime for increased productivity even in harsh environments. The Integrated 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 Integrated 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 Integrated UHF Reader is easy to use for a full shift.



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## Target Specifications

### Standards Compliance

- EPC Class 0, 0+ and Class 1
- ISO 18000-6 B
- Upgradeable 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 – 3.5 m (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

- Less than 1400g
- 7535 is approximately 775g (27oz) with pistol grip
- Integrated Reader is approximately 600g (21oz)

### Environmental

- Operating temp: 32°F to 122°F (-10°C to +50°C)
- Storage temp: -13°F to 140°F (-25°C to +60°C)
- 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 Subject to Change

