

EDGE-55

Compact Long-Range Fixed UHF RFID Reader

The EDGE-55 is a rugged and compact long-range UHF RAIN RFID fixed reader designed for demanding environments and a wide array of applications. Its four RP-TNC antenna ports (50 Ohms) support a broad range of antennas, making it highly adaptable for industrial, logistics, retail, laundry, healthcare and even event-based solutions like marathon runner identification.

Powered by the HID-TSL RFID module and built on the advanced Impinj E710 chipset, the EDGE-55 delivers cutting-edge reading performance. With enhanced sensitivity and read rates, it ensures fast and accurate tag acquisition — ideal for high-volume or mission-critical deployments.

EDGE-55 is a reader for easy installation and fast setup, featuring an Ethernet interface with PoE support and combined with the automatic Inventory Mode making it a plug & play reader for minimum development effort for fast and high demanding projects.

Utilizing the automatic Inventory Mode, the user will be able to configure the reader for reading TID, EPC and User Memory with no effort. For advanced integrations, the EDGE-55 also supports Transparent Mode, empowering developers with full access to the RAIN RFID protocol via a robust API. This flexibility allows the creation of custom applications tailored to specific solution requirements.



KEY BENEFITS:

- RAIN RFID (EPC Class 1 Gen 2, ISO 18000-63)
- Plug & play solution – Automatic reading mode for fast and easy integration
- Best-in-class – High reading performance up to 1200 tag/s
- Rugged and compact – Four antenna support
- Fast integration – Powerful API for flexible integration

MAIN TECHNICAL FEATURES:

- RAIN RFID (EPC Gen 2 / ISO 18000-63) compatible
- Power Over Ethernet (PoE) connectivity
- Dual operating modes:
- Automatic inventory mode
- Transparent inventory for advanced integrations
- 4x RP-TNC antenna ports for flexible antenna configurations
- Communication via Ethernet TCP/IP
- Configuration by web interface with REST/JSON commands

APPLICATIONS:

- Tunnels and portals
- Asset tracking
- Vehicle identification
- Industrial automation
- Logistics
- Retail

