

TrakStar™ Integrated Rail AVI Reader

Rail RFID Simplified

TrakStar™ is a smart AVI reader for unattended railway trackside use. It offers powerful read capability, simple setup and a robust weatherproof IP67 enclosure. TrakStar™ conforms to UK Network Rail & European EVN guidelines and provides a simple reliable means of reading the AVI tags already fitted to many rail fleets.

Key Features

This device meets the challenges of rail as well as other industrial applications. Key features of the device include:

- Conforms to UK Network Rail and European EVN guidelines
- Rugged pole / wall mounted device
- Standard 10/100M ethernet connectivity
- Single low power 24v DC supply (other options available)
- WiFi / GSM / 4G options
- Industry Standard secure MQTT protocol
- Data resilience to power / network outages

Technical Specifications

The specifications may vary depending on the device version. Please contact us for detailed information.

RFID Technologies	UHF EPCGlobal Class 1 Gen 2 (ISO 18000-6C)
AVI Technologies	UK Network Rail / European EVN G1A1
Read Range	Up to 10m @125mph (proven at 3m & 7m)
Interface Technologies	10/100BaseT Ethernet (RJ45)
Data API	MQTT
Wireless Connectivity	WiFi / GSM / 4G Modem Options
Device Size	305mm x 305mm x 70mm (Head Unit)
Weight	Approx. 5kg
Power	24v DC (typ. 20W)
Mounting	Wall / Pole Mounting Options
Control	Via web commissioning interface
GPIO	2 inputs / 2 outputs (all opto isolated)
Ingress Protection	IEC529 / IP67
Operating Temperature	-40°C to +60°C
Time / Date	Battery backed real time clock (RTC)
RFID Power	Adjustable 0dBm to +30dBm
RFID Antenna	Integrated Left Hand Circular Polarised 8.5dBic

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Example Installation

Applications

- Rail AVI Trackside Vehicle Identification
- Motorised and non-motorised vehicles
- High value assets

Versions

- UK Network Rail / European EVN G1A1
- Other GSI application keys

Options

- WiFi Option
- GSM / 4G Modem Option
- Mounting Options
- Power Options



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Designed & Manufactured in Great Britain

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