

MIDAS OUTSTATION

SPECIFICATION SHEET

DESIGN & PROTOCOL COMPLIANCE

- ✓ TR1100K - General Technical Specification
- ✓ TR2169J - NMCS2 MIDAS Outstation Specification
- ✓ TR2130G - Environmental Test Methods
- ✓ CE marking
- ✓ RoHS Compliance
- ✓ EMC Compliance to EN 50293

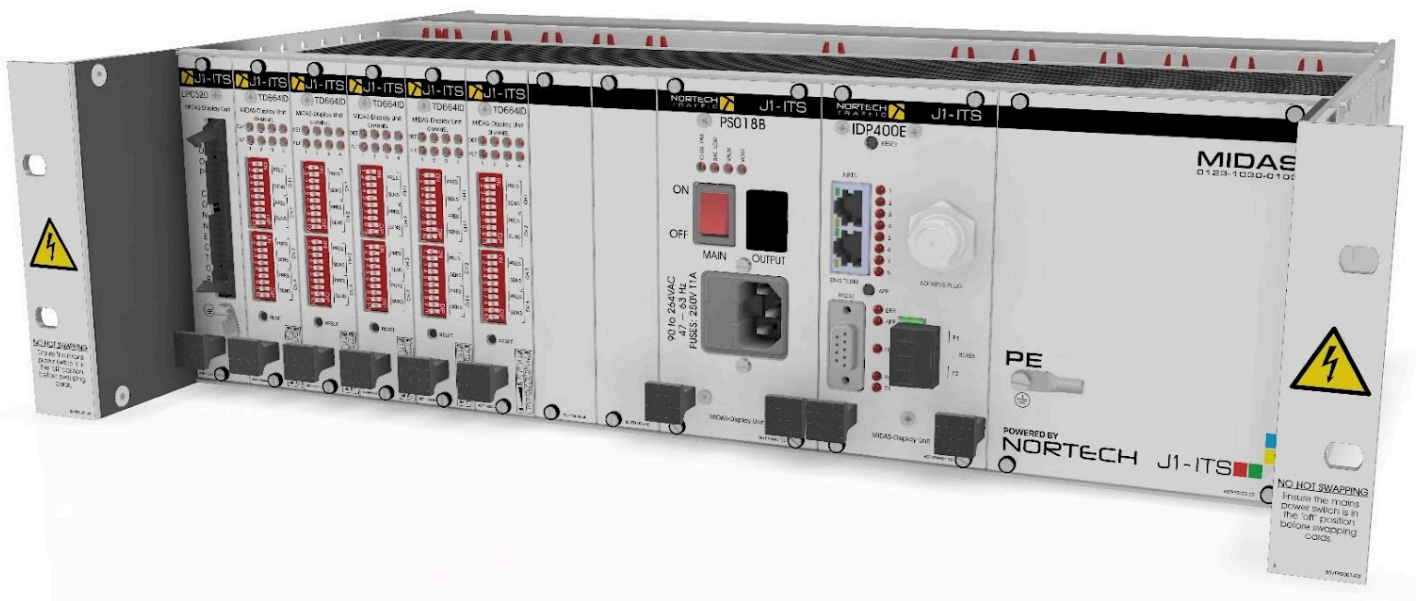
KEY FEATURES

J1-LED The J1-LED MIDAS Outstation Intelligent Vehicle Detector is a reliable and accurate vehicle detection system with low maintenance costs.

The MIDAS collects, stores and reports on multi-lane traffic data comprising of individual vehicle data events or average flow data relating to traffic volume, speed, length category, vehicle headway and percentage occupancy. It can monitor 28 loops (14 lanes) at vehicle speeds up to 125mph. An external host computer is able to access information by interrogating the processor via the various communications options available on the front panel. Remote access via our easy-to-use web browser interface allows rapid configuration, real-time incident detection, real-time viewing of traffic and host communication data, extensive fault diagnostics and logs. The MIDAS also supports the MIDAS NMCS2 communications protocol for configuration and vehicle data.

APPLICATIONS

- Incident Monitoring
- Vehicle Classification
- Statistical Flow Analysis
- Vehicle Data Recording



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Advanced Detectors

The MIDAS uses the already proven TD664 detector incorporating Automatic Frequency Selection (AFS). The AFS circuitry on each 4-channel card evaluates 21 possible frequency shift selections and automatically chooses the best frequency setting on start-up.

Comprehensive Logging

The MIDAS logs every event that occurs and classifies it as a vehicle event, communications event, fault, alarm, debug, info or critical issue. This data is available on a real time Live View via the web interface. It is also written to file and can be stored in onboard Flash memory, to an external USB drive, or automatically uploaded to an FTP server.

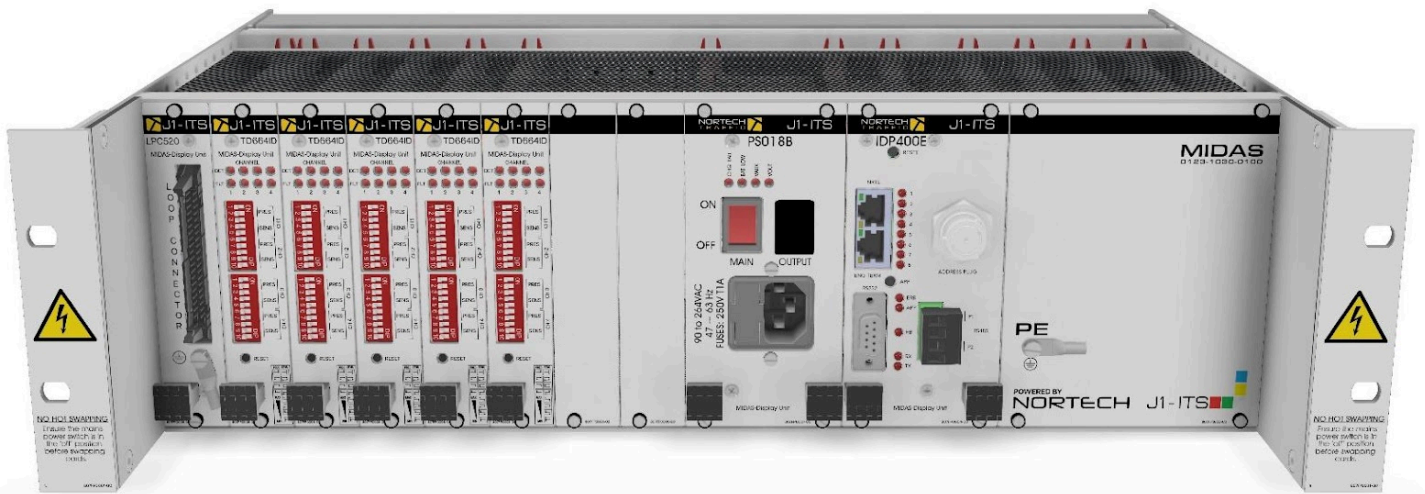
Traffic Data Options

Traffic data comprises average data calculated over pre-determined intervals and includes vehicle count, speed, volume, headway and occupancy. Optionally individual vehicle reporting can be selected which provides a record of every vehicle showing its lane number, speed, length and headway. Loops can be configured as stand- alone loops or paired into lanes to suit the application and required data.

Ethernet/Serial Connectivity

The MIDAS has an Ethernet port for Upstream connectivity using the MIDAS NMCS2 protocol. A second Ethernet port can be used for on-site web browser access, or an Engineers Terminal. The web browser interface allows equipment interrogation, verification and setup of all operating parameters, real-time monitoring of traffic data and communications, and viewing and downloading of traffic data and logs.

Three serial ports are provided to support the MIDAS Transponder connection, the Outstation Auxiliary Link, and the Engineer's Terminal



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Model No:	J1-D-1300-100
Power requirements:	90-260VAC input <i>Intelligent PSU monitoring with open collector outputs and visual indicators for mains failure</i>
Enclosure size:	19" 3U high aluminum rack with mounting ears <i>Designed for seamless swap out in <15 minutes</i>
Main connector:	Power inlet <i>1x IEC 63020 Type C14 inlet socket</i>
Uplink & Engineering terminal Connectors:	<p>Ethernet Ports <i>1x RJ45 connector - Outstation to interface IP Link / Auxiliary IP link</i> <i>1x RJ45 connector - Engineering Terminal</i></p> <p>RS 485 Ports <i>1x Dinkle connector (P1) -Outstation Auxiliary link</i> <i>1x Dinkle connector (P2) – Outstation Transponder Link</i></p> <p>RS232 Port <i>1x DB9 male connector – Engineer’s Terminal</i></p> <p>Loop Detector Interface (with lightning protection) <i>1x IDC 40 Way Male connector with Ejector locks</i></p>
Configuration connectors:	Electrical Connection Plug (ECP) <i>1x Electrical Connection Port (ECP)</i>
Detectors:	Up to 7 x TD664 detectors, supporting up to 28 loops (14 lanes). <i>All detector features and configuration can be accessed straight from the web interface, or configured via the MIDAS NMCS2 communications protocol</i>
MIDAS Algorithms	<ul style="list-style-type: none"> - Traffic statistics - HIOCC1 - HIOCC2 - Flow Threshold Alert - Speed Threshold Alert - Vehicle Presence Alert
Data Logging	Live log view, onboard Flash storage.

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Measured parameters	Vehicle count, speed, length, headway, occupancy.
Communication Interfaces	Supports Serial or Ethernet link to an upstream host processor.
Device Software Updates	Supports updates in the field via Linux packages, signed with GPG Security keys. Software updates can be done via the webpage or using the provided RMAS interface. (As per specification TR2597)



For further information please do not hesitate to contact the J1-LED Technical Support team:

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