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Cheetah

Tactical Router

SYSTEM OVERVIEW

Our **Cheetah Router** is designed for tough operational conditions, the ruggedised design has been tested to withstand severe customer environments. The router is ideal for vehicle applications, providing connectivity for situational awareness, communications internal and external to the vehicle as well as Tactical Datalink functions.

Utilising a Linux based operating system enables the router to host custom software functions as required by the use case.

Modularity of the system address cost effective approach to provide functionality only as needed.

SPECIFICATIONS

Interfaces	Connectors
Power	28V - D38999/XXZB98PN NGVA compatible
Ethernet	100/1000 Tx - D38999/XXZC35SA Dual channel NGVA compatible
USB	USB3 – on D38999/XXZB35SN
Serial	RS422/RS232/100BaseT – on D38999/XXZB35SA
CAN	Dual CAN FD – on D38999/XXZB35SN
LTE/GNSS (Optional)	2x TNC 50 Ohm

Environmental

Temperature (Operational)	-20°C to +71°C
Temperature (Storage)	-40°C to +80°C
Vibration	MIL-STD810G 'Operational Service' as for Category 20 Ground Vehicles. MIL-STD810G 'Transportation' as for Category 6 Large Assembly Cargo
Shock	MIL-STD810G 'Procedure I – Functional Shock' of 40g as for Ground Equipment
Humidity	MIL-STD810G Procedure I – Natural' of 80%RH at 40°C
Sand and Dust	MIL-STD810G Dust (<150um) Procedure' as for Ground Vehicles
Electromagnetic Compatibility	MIL-STD-461F
Altitude	MIL-STD810G 'Procedure I – Storage/Air Transport' up to 15 km (50,000 feet)
Power Supply	28V DC MIL-STD-1275E
MTBF	15,000 hours @55°C GM

Cheetah Router is a cost effective fully managed Military-grade network level 2/3 switch/router combined, offering 8 or 16 GbE copper ports.

Key Features

- Ruggedised design
- Modular expandability
- Conduction cooling
- IEEE1588 PTP
- Non-ITAR controlled
- Web based management interface

Protocols

- Static
- OSPF
- RIP
- PPP / PPPoE
- DHCP

Optional

- LTE (Optional)
- GNSS (Optional)
- PoE –Power over Ethernet (on 8 ports)
- RS232 / RS422 / 2xFDCAN -ISO11898
- HUMS -Health and Usage Monitoring System

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MECHANICAL DIMENSIONS