

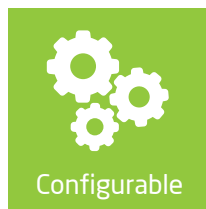
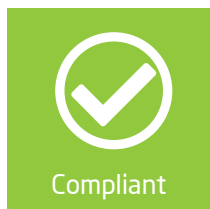
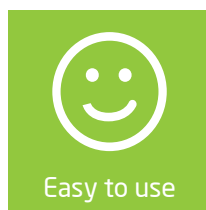
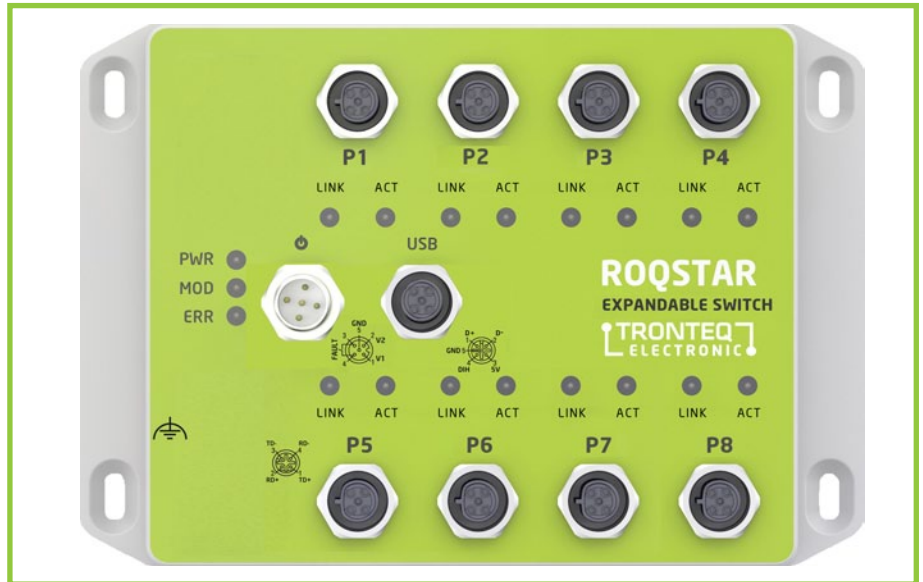
ROQSTAR Expandable 8 Port M12 Ethernet Switch



**MADE
IN
GERMANY**

Expandable ITxPT labeled Switch

The ROQSTAR Expandable Switch has a unique value proposition: initially delivered as an Unmanaged Switch it can be upgraded with a firmware to an Managed Switch while in operation. For Public Transport Authorities and Operators this is the perfect way save installation and hardware costs and gain flexibility in a highly dynamic market.



Description

ROQSTAR Expandable is an Ethernet Switch that is developed for industry and transportation applications.

The compact ROQSTAR Switch has 8 Fast Ethernet ports and is ideal for intelligent onboard network solution.

Before the firmware upgrade the Expandable Switch has all the benefits of an Unmanaged Switch: plug&play, easy to use, fast start-up. As the IP-network gets more sophisticated and configuration, monitoring and network diagnose become vital functions, you can simply upgrade to Managed Switch by using the USB or network interface.

Designed in a robust metal housing the switch features M12 d-coded connectors to provide secure connections while enduring high vibration and mechanical shocks.

Applications

- Passenger information systems
- CCTV onboard systems
- Passenger counting systems
- Automatic IP address configuration
- Segmentation of networks

Key features

- Layer 2 management features
- 10/100 Mbit/s 8 Ethernet Ports
- SNMP, LLDP, DHCP, RSTP
- wide range power supply
- USB Port for configuration
- Operation temp. -40°C ... +70°C
- UNECE E1 R10, R118
- IBIS-IP and ITxPT compliant

Technical specification

Connectors

M12 d-coded Ethernet ports	8 x 10/100Mbps
M12 a-coded male	1 x power supply
M12 a-coded female	1 x USB port

Physical

Enclosure	aluminium die-cast
Protection class	IP54
Installation	wall mount
Dimensions (W x D x H)	175 x 52 x 121 mm
Weight	550 g

Environment

Ambient temperature operating	-40°C ... +70°C
Ambient temperature storage	-40°C ... +85°C
Ambient humidity	10% ... 90% non condensing
Shock and Vibration	IEC 61373

LED display

System LEDs	PWR, ERR, MOD
Port LED Fast Ethernet ports	link/activity

Power

Power consumption	5W at 24VDC
Operating voltage	9,6 ... 60 VDC
Power supply input	V1,V2 dual, polarity protected

Approvals

EMC	UN ECE R10
Fire protection	UN ECE R118
Labels	ITxPT, IBIS-IP

Fault contact

Features	isolated, programmable, max. 2A/60V
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MTBF

25°C	925 549 h
60°C	349 255 h

Layer 2 features

L2 MAC address	2048
Frames Switching	1522
VLAN*	802.1Q
VLAN group*	32 (VLAN IDs: 4094)
Port mirroring*	multiple sources, single destination
Storm protection*	Broadcast, configurable: off, 1Mbps
Redundancy protocol*	IEEE802.1D - STP, IEEE802.1w - RSTP
Quality of service*	IEEE802.1p PCP and DSCP
Additional features*	Link aggregation

Management

DHCP*	server: pool, port based, static leases
Access*	web, SNMP v1/v2/v3
Service*	https, USB port
User management	3 differnt levels
USB port*	firmware update, configuration upload and download, iP- and factory reset

Diagnose

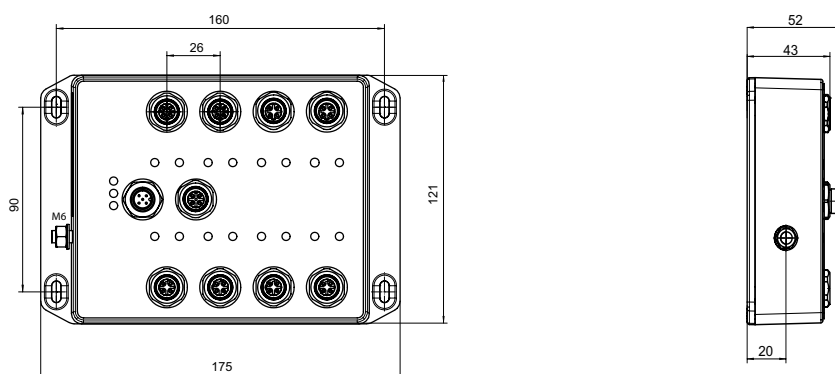
Ethernet ports*	link up/down, traffic stats
Logging*	link, system
ITxPT*	Module Inventory

Available after upgrade

Available after upgrade

*Only available after upgrade

Drawing



Order information

Order no.	Product-Code	Description
006-130-104	ROQ-08F-E-LV-IP54	ROQSTAR Expandable 8-Port Fast Ethernet M12 Switch, IP54