

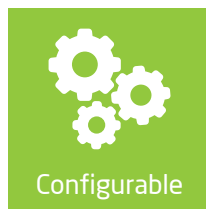
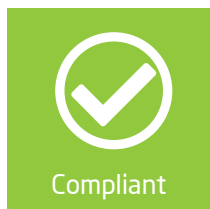
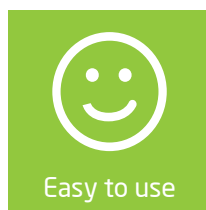
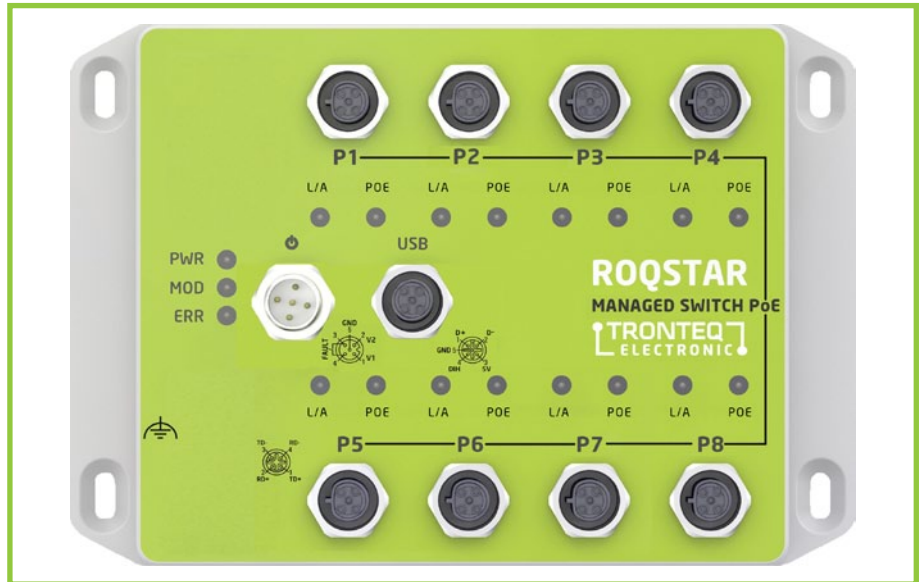
# ROQSTAR Managed PoE

## 8 Port M12 PoE Ethernet Switch



### Managed PoE ITxPT labeled Switch

The M12 Managed PoE Switch is ITxPT labeled. With an integrated DC/DC converter the switch is powered with 24 VDC. ROQSTAR Managed PoE is designed for PoE equipment like validators, passenger counting systems and video surveillance cameras in Buses and EV-shuttles. The switch is ideal for managed IP-networks and provides vital monitoring and diagnose data.



### Description

ROQSTAR Managed PoE is an Ethernet Switch that is developed for transportation applications.

The compact ROQSTAR Switch has 8 Fast Ethernet ports. The integrated PoE power supply provides up to 62W at 24 VDC on 8 Fast Ethernet ports. An intelligent power budget management ensures an efficient power supply solution.

ROQSTAR Managed PoE is a configurable layer 2 switch. It is used to virtually separate network segments like ticketing data from all other data traffic. Further the switch is able to automatically configure the IP address of all connected devices to save time and money in network set-up and maintenance.

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 applications
- Passenger counting systems
- Automatic IP address configuration
- Segmentation of networks
- PoE from 24VDC vehicle voltage

### 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
- E-Mark R10, R118
- Up to 62W total power budget
- IEEE 802.3 af/at conform
- IBIS-IP VDV 301-2-14 compliant
- ITxPT laboratory 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	780 g

### Environment

Ambient temperature operating	-40°C ... +70°C
Ambient temperature storage	-40°C ... +85°C
Ambient humidity	10% ... 90% non condensing

### 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, max. 2A/60V
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### MTBF

25°C	680 670 h
60°C	261 292 h

### PoE features

PoE/PoE+ ports	8
Operating voltage	16..52 VDC, polarity protected
Rated PoE power	62 W total
Max. PoE power one port	30 W
Power supply input	V1 only
PoE classes	PoE Class 0, 1, 2, 3, 4
Current limits	configurable per port

### Layer 2 features

L2 MAC address	2048
Jumbo 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

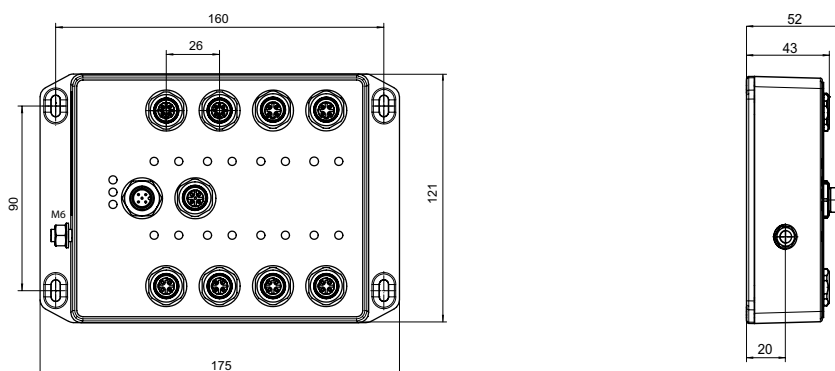
### Management

DHCP	server: pool, port based, static leases
Access	web, SNMP v1/v2/v3
Service	https, USB port
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
SNMP	traps
Fault contact	programmable

## Drawing



## Order information

Order no.	Product-Code	Description
006-130-109	ROQ-08F-F-LP-IP54	ROQSTAR Managed PoE 8-Port Fast Ethernet M12 PoE Switch, IP54