

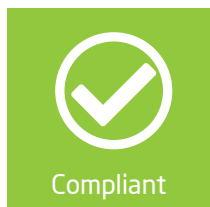
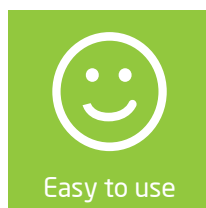
ROQSTAR Managed 8 Port M12 Ethernet Switch



**MADE
IN
GERMANY**

Managed ITxPT labeled Switch

The ROQSTAR Managed Switch has 8 Fast Ethernet ports with M12 connectors. It is designed for on-board applications in Public Transport vehicles like Buses and Autonomous Shuttles. The Managed Switch is widely used to interconnect on-board systems like realtime passenger information, passenger counting and ticketing.



Description

ROQSTAR Managed 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.

For a larger fleet deployment the ROQSTAR Managed Switches can be automatically configured by one central devices. The switch provides viable monitoring and diagnose network data.

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 |
|----------|-------------------------------------|

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 |

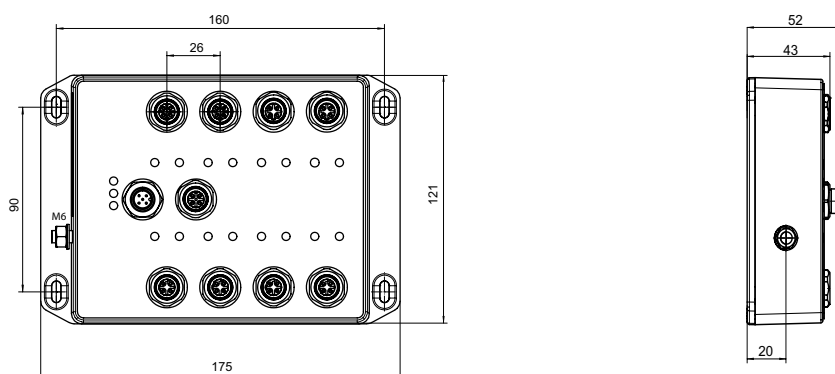
Management

| | |
|-----------------|---|
| 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 |

Drawing



Order information

| Order no. | Product-Code | Description |
|-------------|-------------------|--|
| 006-130-102 | ROQ-08F-F-LV-IP54 | ROQSTAR Full Managed 8-Port Fast Ethernet M12 Switch, IP54 |