

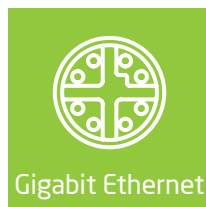
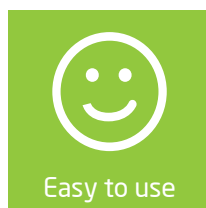
# ROQSTAR Gigabit Managed PoE

## 10 Port M12 Ethernet Switch



### ROQSTAR Gigabit ITxPT labeled Switch

The ROQSTAR Managed PoE Switch has 2 Gigabit and 8 Fast Ethernet ports and provides up to 62 Watt PoE power output. It has an isolated DC/DC converter and is powered with 24VDC. ROQSTAR is designed for applications in Buses and Light Railway Vehicles. It is used for CCTV, validators, passenger counting systems and other on-board equipment.



### Description

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

The ROQSTAR Switch has 10 Ethernet ports, two of them are Gigabit and 8 are Fast Ethernet ports. The integrated PoE power supply provides up to 62W at 24 VDC on 8 Fast Ethernet ports.

ROQSTAR 2GE+8FE Managed PoE is a configurable layer 2 switch with layer 3 functions. It supports basic layer 2 features like VLANs and port-based DHCP. Further the switch supports layer 3 functions like static IP-routing, NAT and PAT for high sophisticated networks in Buses and Trams.

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

- Backbone for passenger Wi-Fi
- Realtime passenger information
- Gigabit backbone for CCTV
- Automatic IP address configuration
- Segmentation of networks
- PoE from 24VDC vehicle voltage

### Key features

- 2 x 10/100/1000 Mbit/s
- 8 x 10/100 Mbit/s
- 8 x PoE Ports with PoE/PoE+
- Layer 2 management features
- Operation temp. -40°C ... +70°C
- Up to 62W total power
- IP54 metal housing
- E-Mark, EN50155
- IBIS-IP VDV 301-2-14 compliant
- ITxPT laboratory compliant

## Technical specification

### Connectors

M12 x-coded GE ports	2x 10/100/1000Mbps
M12 d-coded FE ports	8 x 10/100Mbps with PoE+
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
Shock and Vibration	EN50155, IEC 61373

### LED display

System LEDs	PWR, ERR, MOD, CFG
Port LED Gigabit ports	link/activity, speed
Port LED Fast Ethernet ports	link/activity, PoE

### Power non PoE

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

### MTBF

25°C	729 604 hrs
60°C	273 505 hrs

### Approvals

EMC	EN50121-3-2, UN ECE R10
Environment	EN50155
Fire protection	EN45545, UN ECE R118
Labels	ITxPT, IBIS-IP

### PoE f

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

### Layer 2 features

L2 MAC address	16k
Jumbo Frames Switching	10kb
VLAN	802.1Q
VLAN group	32 (VLAN IDs: 4094)
Port mirroring	multiple sources, single destination
Multicast	IGMP snooping, querier configurable
Storm protection	Broadcast, configurable: off, 1Mbps
Redundancy protocol	IEEE802.1D - STP; IEEE802.1w - RSTP

### Management

DHCP	server: pool, port based, static leases, client
Access	password authorization web, SNMP v1/v2/v3
Service	https, USB port
USB port	firmware update, configuration upload and download, iP- and factory reset

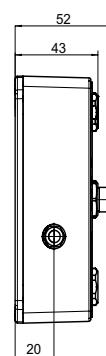
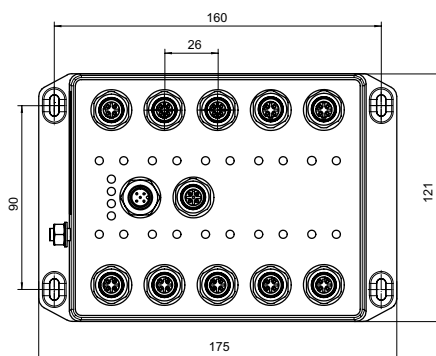
### Layer 3 functions

NAT/PAT	1:N NAT, PAT
Firewall	L3 stateless firewall
IP-routing	static

### Diagnose

Ethernet ports	link up/down, traffic
Logging	link, system, PoE
PoE	on/off, allocated power budget
ITxPT	Module Inventory

## Drawing



## Order information

Order no.	Product-Code	Description
006-130-118	ROQ-2G8F-M-LP-IP54	ROQSTAR Managed 2GE+8FE port Gigabit Ethernet M12 PoE Switch, IP54