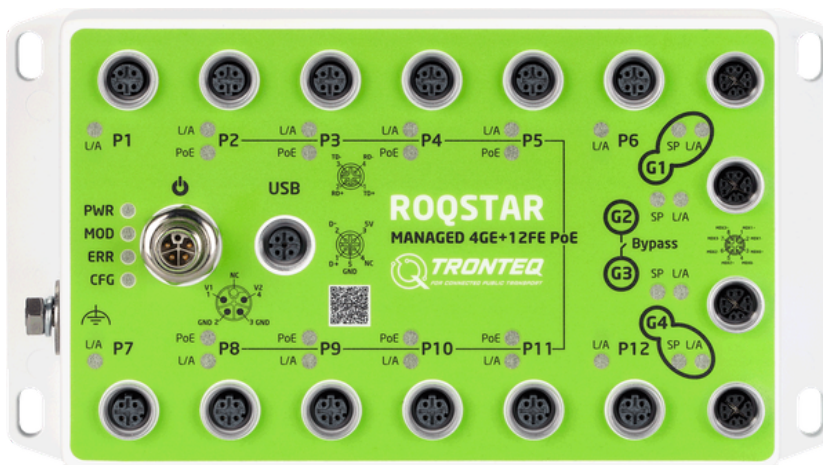


# ROQSTAR Managed Gigabit PoE Switch

## 16 Ports / M12

Product number 006-130-125



### Features & Applications

- 10/100/1000 Mbit/s
- PoE budget 96W, supply 24V, galvanically isolated
- NAT
- Auto deployment
- OpenAPI
- Web interface
- Gigabit backbone networks
- Redundant ring topologies
- Backbone for CCTV
- Backbone for passenger Wi-Fi
- Backbone for contactless payment systems
- Backbone for passenger counting systems



## Technical Specifications

### Connectors

|                                 |                      |
|---------------------------------|----------------------|
| M12 X-, D-coded inner push pull | IEC 61076-2-010      |
| M12 X-coded Gigabit ports       | 4 x 10/100/1000 Mbps |
| M12 D-coded Fast Ethernet ports | 12 x 10/100 Mbps     |
| M12 L-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/any orientation |
| Dimensions (W x D x H) | 217 x 60 x 120 mm          |
| Weight                 | 1300 g                     |

### Environment

|                               |                            |
|-------------------------------|----------------------------|
| Ambient temperature operating | -40°C ... +70°C            |
| Ambient temperature storage   | -40°C ... +85°C            |
| Ambient humidity              | 10% ... 95% non condensing |
| Shock and vibration           | EN50155, IEC 61373         |

### LED display

|                              |                      |
|------------------------------|----------------------|
| System LEDs                  | PWR, ERR, MOD, CFG   |
| LEDs Gigabit Ethernet ports  | Link/Activity, Speed |
| LEDs Fast Ethernet ports     | Link/Activity        |
| LEDs Fast Ethernet PoE ports | Link/Activity, PoE   |

### Power non-PoE

|                       |                                |
|-----------------------|--------------------------------|
| Power consumption     | 8W at 24VDC                    |
| Power supply input    | V1,V2 dual, polarity protected |
| Power supply immunity | 10ms including PoE             |
| Ignition power sleep  | V2, time configurable          |

### MTBF

|      |             |
|------|-------------|
| 25°C | 552 587 hrs |
| 60°C | 204 731 hrs |

### Approvals

|                        |                           |
|------------------------|---------------------------|
| E-Mark EMC             | EN50121-3-2, UN ECE R10   |
| Rail                   | EN50155                   |
| E-Mark fire protection | EN45545, UN ECE R118      |
| IBIS-IP                | Compliant                 |
| ITxPT                  | Laboratory test compliant |

### PoE features

|                         |                                  |
|-------------------------|----------------------------------|
| PoE/PoE+ ports          | 8                                |
| Operating voltage       | 16 .. 52 VDC, polarity protected |
| Rated PoE power         | 96W total                        |
| Max. PoE Power one port | 30W                              |
| PoE classes             | PoE Class 0, 1, 2, 3, 4          |
| current limits          | per port                         |

### Bypass relay

|                 |           |
|-----------------|-----------|
| 2 Gigabit ports | G2 and G3 |
|-----------------|-----------|

### Layer 2 features

|                     |                                      |
|---------------------|--------------------------------------|
| L2 MAC address      | 16k                                  |
| VLAN                | 802.1Q (tagged VLANs)                |
| VLAN groups         | 64 (VLAN ID 1 - 4094)                |
| Port mirroring      | Multiple sources, single destination |
| Storm protection    | Broadcast, configurable: off, 1Mbps  |
| Redundancy protocol | IEEE802.1w - RSTP                    |

### Management

|          |   |
|----------|---|
| DHCP     | Server: one per VLAN (pool, port based, static leases);<br>Client: one per VLAN;<br>Relay |
| Access   | Http, https, OpenAPI, SNMP v1/v2/v3, web interface  |
| USB port | Firmware update, configuration upload and download, IP and factory reset                  |

### Layer 3 features

|         |              |
|---------|--------------|
| NAT/PAT | 1:1 NAT, PAT |
|---------|--------------|

### Diagnostics

|                |                           |
|----------------|---------------------------|
| Ethernet ports | Link up/down, counter     |
| Logging        | Link, RSTP, DHCP, system  |
| ITxPT          | Module Inventory, xStatus |
| Remote Syslog  | Client                    |
| SNMP           | Traps                     |

## Drawings

