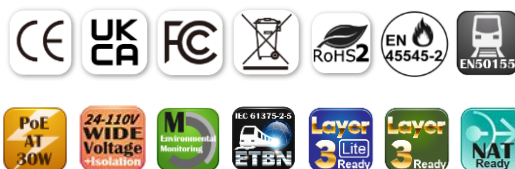


T(P)GS-R5608MGFT

8 10/100/1000T + 4 1G/2.5G Copper +2 1G/2.5G Fiber Q-ODC OM3 (w/8/10/12 PoE), EN50155 OS4 Managed Ethernet Switch; WVI / 24VI / 24TVI input w/ optional dynamic routing, multicast routing, cybersecurity, and hardware NAT



OVERVIEW

Lantech T(P)GS-R5608MGFT is a high performance OS4 Ethernet switch with 8 10/100/1000T + 4 1G/2.5G Copper + 2 1G/2.5G Fiber Q-ODC OM3 with 8 or 10/12 (incl. 8 10/100/1000T + 2/4 uplink 1G/2.5G copper) PoE 802.3af/at ports which provides advanced security function for network aggregation deployment.

Lantech OS4 Platform with complete L2 management and upgradable optional L3 & L3Lite communication protocols incl. dynamic routing, multicast routing, hardware NAT, and PTP

The switch runs Lantech OS4 platform which is powerful with complete Layer 2 management features and optional upgradable for future expansion, such as Layer 3 Lite, Layer 3, IEC61375-2-5 (ETBN), hardware NAT, PTP, etc. The PTP V2 supports transparent clock and two step processing that improves network time accuracy and precision. To learn more about the Lantech OS4 Platform, please refer to [Lantech OS3/OS4 Software Datasheet](#)

Enhanced cybersecurity features with IEC 62443-4-1, optional IEC 62443-4-2 compliance & built-in DDoS attack protection

Lantech OS4 platform is designed with high standard of cybersecurity to prevent the threats from network attack such as DDoS attacks. To ensure the safety and reliability of communication networks, Lantech develops our products under strict international security standard and is certified with IEC 62443-4-1 and the switch is also compliant to optional IEC 62443-4-2 standard. To learn more about Lantech cybersecurity software solution, please refer to [Lantech OS3/OS4 Software Datasheet](#)

Up to 8/10/12 PoE at/af ports w/advanced PoE management and PoE galvanic isolation; Ethernet power input galvanic isolation

Compliant with 802.3af/at standard, the PoE model is able to feed each PoE port up to 30 Watt at each PoE port for various IP PD devices. It supports advanced PoE management including PoE detection and scheduling. PoE

detection can detect if the connected PD hangs then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Each PoE ports can be Enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Galvanic isolation between power input and Ethernet power system, also the PoE galvanic isolation provides insulation between the power input to PoE Ethernet ports, preventing cabling and grounding incidents from damaging the Ethernet switch. The efficiency of the galvanically decoupled voltage converters can reach above 90%.

Miss-wiring avoidance, node failure protection, Loop protection

The switch also embedded several features for strong and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, the switch being able to alert with the LED indicator and disable ring automatically. Node failure protection ensures the switches in a ring to survive after power breakout is back. The status can be shown in NMS when each switch is back. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

User friendly GUI, Auto topology drawing, Enhanced Environmental Monitoring

The user-friendly UI, innovative auto topology drawing and topology demo makes the switch much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line. It supports enhanced environmental monitoring for actual input voltage, current, ambient temperature and total power load.

Built-in IEC 61375-3-4 ECN (Ethernet Consist Network) to work with IEC61375-2-5 TBN

Lantech OS4 Ethernet switches comply with IEC 61375-3-4 (ECN) standard. The support of Ethernet Consist Network allows interconnection between end devices located in single consist of train and interoperability with IEC61375-2-5 (TBN).

Editable configuration file; USB port for import/export configuration

The configuration file of the switch can be imported and edited with word processor for the following switches to configure with ease. The USB port can import/export the configuration from/to USB dongle and also to upgrade firmware from USB dongle. TFTP/HTTP firmware upgrade is supported.

Event log & message; 2DI + 2DO; Factory default pin

The switch provides 2DI and 2DO. When disconnection of the specific port was detected; DO will activate the signal LED to alarm. DI can integrate the sensors for events and DO will trigger the outside alarm and switch will send alert information to IP network with traps. The factory reset pin can restore the setting back to factory default.

Optional smart bypass protection on dual 1G/2.5G copper/fiber ports

The bypass relay is set to bypass the switch to the next one when power is off to prevent network disruption. Lantech bypass caters to remain in bypass mode until the switch is completely booting up when power is back to avoid another network lost. Optional smart bypass (up to two pairs copper bypass and one pair fiber bypass) can be activated when switch encounters power failure. (-BT/-BBT/-BF/-BBT-BF model)

Our uplink port design is able to support PoE and bypass at different times depending on the requirement. When bypass mode is in use the PoE is in standby mode. (-12 model)

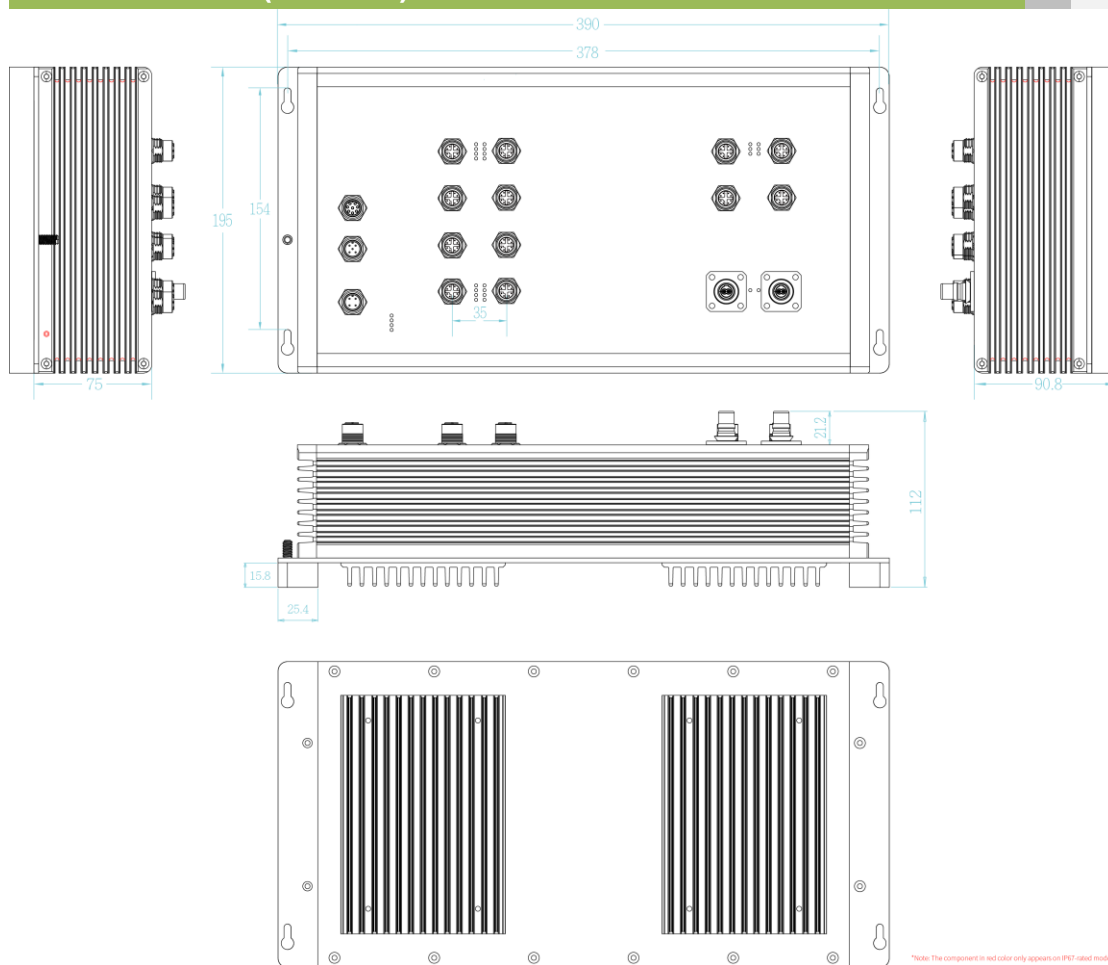
Dual WVI / 24VI / 24TVI input with max PoE budget and Inrush current protection

The switch accept 16.8~137.5VDC (WVI model) ; 9~36VDC (24VI model) ; 16.8~56VDC (24TVI model) dual input with Ethernet and PoE galvanic isolation and PoE model can feed 54V output for PoE feeding with 80W budget. The inrush current on initial power up can be limited lower than 10 x nominal current.

EN50155, EN45545-2; EN61373 compliance; Rugged design with high ESD protection

The switch is designed to meet with critical network environment with IP67/IP54 aluminum enclosure and M12 connectors for water proof. The switch passed serious tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke and EN50155 verification, it is best switch for railway on-board/track side, vehicle, and mining applications. For more usage flexibilities, the switch supports wide operating temperature from -40°C to 70°C (85°C operation for 10min), which is compliant with the EN50155 Operating Temperature Range Requirement Class OT4.

DIMENSIONS (unit=mm)



SPECIFICATIONS

Hardware Specification

| | | | | |
|-----------|--|--------------|--|---------------------------------------|
| Standards | IEEE802.3 10Base-T Ethernet | Architecture | 16K MAC address table | |
| | IEEE802.3ab 1000Base-T | | Mac Address | |
| Switch | IEEE802.3x Flow Control and Back Pressure | Jumbo frame | 10KB | |
| | IEEE802.3ad Port trunk with LACP | Connectors | 10/100/1000T: 8 x M12 8-pole X-coded with Auto MDI/MDI-X function | |
| | IEEE802.1d Spanning Tree | | 1G/2.5G Copper: 4 x M12 8-pole X-coded with Auto MDI/MDI function | |
| | IEEE802.1w Rapid Spanning Tree | | 1G/2.5G Dual Speed Fiber: 2 x Q-ODC OM3 connector for single-mode or multi-mode type fiber cable | |
| | IEEE802.1s Multiple Spanning Tree | | Power Input connector: 1 x M12 4-pole Male A-coded | |
| | IEEE802.3ad Link Aggregation Control Protocol (LACP) | | Reset/Console/USB : 1 x M12 8-pole A-coded | |
| | IEEE802.1AB Link Layer Discovery Protocol (LLDP) | | DIDO: 1 x M12 5-pole A-coded | |
| | IEEE802.1X User Authentication (Radius) | | Network Cable | 10Base-T: 4-pair STP Cat3 cable |
| | IEEE802.1p Class of Service | | | 100Base-TX: 4-pair STP Cat3/5 cable |
| | IEEE802.1Q VLAN Tag | | | 1000Base-T: 4-pair STP Cat5/5e cable; |
| | IEEE802.3at/af Power over Ethernet | | | |
| | Back-plane (Switching Fabric): 46Gbps | | | |

| | |
|--------------------------------|--|
| | 2.5G Copper: 4-pair STP Cat5e cable 1G/2.5G fiber: Multi-mode: 0 to 300 m, 850 nm (62.5/125 μm); Single-mode: 0 to 2 km, 1310 nm (9/125 μm) |
| LED | Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G copper: Link/Act (Yellow) 1G/2.5G fiber: Link/Act (Orange) PoE : Link/Act (Green) (PoE model) |
| DI/DO | 2 Digital Input (DI) : Level 0: -30~2V / Level 1: 10~30V Max. input current:8mA 2 Digital Output(DO): Open collector to 80 VDC, 50mA |
| Operating Humidity | 5% ~ 95% (Non-condensing) |
| Operating Temperature | -40°C~70°C / -40°F~158°F (85°C operation for 10min.) |
| Storage Temperature | -40°C~85°C / -40°F~185°F |
| Power Supply | Dual DC input 16.8~137.5VDC (WVI model) ; 9~36VDC (24VI model) ; 16.8~56VDC (24TVI model) (PoE galvanic isolation for PoE models; Ethernet galvanic isolation for all models) |
| PoE Budget (PoE model) | 80W@24VDC Higher PoE budget can be applied upon request. ** |
| PoE pin Assignment (PoE model) | M12 port #1~#8 (-8 model) M12 port #1~#8, #11~#12 (-10 model) M12 port #1~#12 (-12 model) |

| | |
|-------------------------------|--|
| | Support IEEE 802.3at/af End-point, Alternative A mode |
| Power Consumption | max. 43.1W exclude PoE load |
| Dimensions | IP54/IP67 model: Aluminum case 390mm(W)x195mm(H)x112mm(D) |
| Weight | 3.8kgs |
| Installation | Wall Mount Design |
| EMI & EMS | FCC Part 15 Class A EN61000-6-2 EN61000-6-4 CE EN55032 Class A CE EN55024 CE EN61000-4-2 (ESD) Level 3 CE EN61000-4-3 (RS) Level 3 CE EN61000-4-4 (EFT) Level 3 CE EN61000-4-5 ED3 (Surge) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3 |
| Verifications | EN50155/EN50121-3-2/EN50121-4 ; EN45545-1, EN 45545-2 Fire & Smoke verification |
| Stability Testing | EN61373 (Shock and Vibration) |
| MTBF | 367,935 Hrs. (standards: IEC 62380) |
| Warranty | 5 years |
| Bypass** | Up to two pairs copper and one pair fiber bypass on 1G/2.5G Copper ports and 1G/2.5G Fiber Q-ODC ports to pass to next switch in case of power failure |
| Software Specification | |
| Lantech OS4 Platform | Download Software Datasheet |

*Future release
**Optional

ORDERING INFORMATION

All model packages include M12 caps. For optional bypass add -BT (one pair copper bypass); -BBT (two pairs copper bypass); -BF (one pair Fiber bypass); -BBT-BF (two pairs copper & one pair fiber bypass) to end of model names. For Coating add -C to end of model names.

- **TPGS-R5608MGFT-8-QMM-54-WVI.....P/N: 8361-554**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-8-QSM-54-WVI.....P/N: 8361-5541**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-10-QMM-54-WVI.....P/N: 8361-5544**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-10-QSM-54-WVI.....P/N: 8361-5545**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-12-QMM-54-WVI.....P/N: 8361-5542**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-12-QSM-54-WVI.....P/N: 8361-5543**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TGS-R5608MGFT-QMM-54-WVI.....P/N: 8361-5546**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; EN50155 OS4 Managed Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ galvanic isolation
- **TGS-R5608MGFT-QSM-54-WVI.....P/N: 8361-5547**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; EN50155 OS4 Managed Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ galvanic isolation

- **TPGS-R5608MGFT-8-QMM-67-WVI.....P/N: 8361-5548**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-8-QSM-67-WVI.....P/N: 8361-5549**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-10-QMM-67-WVI.....P/N: 8361-6692**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-10-QSM-67-WVI.....P/N: 8361-6693**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-12-QMM-67-WVI.....P/N: 8361-6694**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-12-QSM-67-WVI.....P/N: 8361-6695**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TGS-R5608MGFT-QMM-67-WVI.....P/N: 8361-6696**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; EN50155 OS4 Managed Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ galvanic isolation
- **TGS-R5608MGFT-QSM-67-WVI.....P/N: 8361-6697**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; EN50155 OS4 Managed Ethernet Switch ; 16.8V~137.5VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ galvanic isolation
- **TPGS-R5608MGFT-8-QMM-54-24VI.....P/N: 8361-55401**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-8-QSM-54-24VI.....P/N: 8361-55411**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-10-QMM-54-24VI.....P/N: 8361-55441**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-10-QSM-54-24VI.....P/N: 8361-55451**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-12-QMM-54-24VI.....P/N: 8361-55421**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-12-QSM-54-24VI.....P/N: 8361-55431**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
- **TGS-R5608MGFT-QMM-54-24VI.....P/N: 8361-55461**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; EN50155 OS4 Managed Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ galvanic isolation
- **TGS-R5608MGFT-QSM-54-24VI.....P/N: 8361-55471**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; EN50155 OS4 Managed Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ galvanic isolation
- **TPGS-R5608MGFT-8-QMM-67-24VI.....P/N: 8361-55481**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-8-QSM-67-24VI.....P/N: 8361-55491**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-10-QMM-67-24VI.....P/N: 8361-66921**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-10-QSM-67-24VI.....P/N: 8361-66931**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/10 PoE at/af incl.2

- 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
- **TPGS-R5608MGFT-12-QMM-67-24VI.....P/N: 8361-66941**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-12-QSM-67-24VI.....P/N: 8361-66951**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
 - **TGS-R5608MGFT-QMM-67-24VI.....P/N: 8361-66961**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; EN50155 OS4 Managed Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ galvanic isolation
 - **TGS-R5608MGFT-QSM-67-24VI.....P/N: 8361-66971**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; EN50155 OS4 Managed Ethernet Switch ; 9V~36VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ galvanic isolation
 - **TPGS-R5608MGFT-8-QMM-54-24TVI.....P/N: 8361-55402**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-8-QSM-54-24TVI.....P/N: 8361-55412**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-10-QMM-54-24TVI.....P/N: 8361-55442**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-10-QSM-54-24TVI.....P/N: 8361-55452**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-12-QMM-54-24TVI.....P/N: 8361-55422**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-12-QSM-54-24TVI.....P/N: 8361-55432**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ PoE galvanic isolation
 - **TGS-R5608MGFT-QMM-54-24TVI.....P/N: 8361-55462**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; EN50155 OS4 Managed Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ galvanic isolation
 - **TGS-R5608MGFT-QSM-54-24TVI.....P/N: 8361-55472**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; EN50155 OS4 Managed Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP54 housing w/ galvanic isolation
 - **TPGS-R5608MGFT-8-QMM-67-24TVI.....P/N: 8361-55482**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-8-QSM-67-24TVI.....P/N: 8361-55492**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/8 PoE at/af EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-10-QMM-67-24TVI.....P/N: 8361-66922**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-10-QSM-67-24TVI.....P/N: 8361-66932**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/10 PoE at/af incl.2 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-12-QMM-67-24TVI.....P/N: 8361-66942**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
 - **TPGS-R5608MGFT-12-QSM-67-24TVI.....P/N: 8361-66952**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; w/12 PoE at/af incl.4 1G/2.5G Copper EN50155 OS4 Managed POE Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ PoE galvanic isolation
 - **TGS-R5608MGFT-QMM-67-24TVI.....P/N: 8361-66962**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded + 2 1G/2.5G Fiber Multimode Q-ODC 300M; EN50155 OS4 Managed

- Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ galvanic isolation
- **TGS-R5608MGFT-QSM-67-24TVI.....P/N: 8361-66972**
8 10/100/1000T + 4 1G/2.5G Copper M12 X-coded +2 1G/2.5G Fiber Single mode Q-ODC 2KM; EN50155 OS4 Managed Ethernet Switch ; 16.8V~56VDC dual input; -40C~70C/-40F~158F; IP67 housing w/ galvanic isolation

OPTIONAL ACCESSORIES

Software package

Please refer to the [software datasheet](#)

M12 Connector & Cable

Connector

- **ECONM12-04A(F)-C-180** 4 pin M12 (Female) A-coded 180 degree crimp type connector for power supply
- **ECONM12-08A(M)-180** 8 pin M12 (Male) A-coded 180 degree crimp type connector for reset/console/USB
- **ECONM12-05A(M)-C-180** 5 pin M12 (Male) A-coded 180 degree crimp type connector for DI/DO
- **ECONM12-08X(M)-SPEEDCON** 8 pin M12 (Male) X-coded 180 degree crimp type connector for data, Ethernet CAT6A (10G), shielded, SPEEDCON

Cable

- **ECONM12-4P(F)1.5M CABLE** 4 pin M12 (Female) A-coded 90 degree cable for power supply, 150cm
- **ECONM12-08M2-CONSOLE** 8 pin M12 (Male) A-coded 180 degree to RS232 cable for console, 150cm
- **ECABM12X83MSTP** 8 pin M12 (Male) X-coded 180 degree RJ45 STP cable for data, shielded, 300cm
- **ECABM002-QOP2-3.0-MM-OM3** Q-ODC 2 plug/LC multi-mode fiber, MM-OM3, 300cm
- **ECABM002-QOP2-3.0-SM-OS2** Q-ODC 2 plug/LC single-mode fiber, SM-OS2, 300cm

Others

- **M12 to USB interface adapter** 8 pin M12 (Male) A-coded 180 degree M12 to USB 2.0 interface adapter, 8cm
- **USB 2.0 Ethernet Adapter** USB 2.0 to RJ45 Ethernet Adapter
- **ECONM12-08(M) TO DB9+USB2.0-1.5M CABLE** 8 pin M12 (Male) A-coded 180 degree M12 to USB2.0 to DB9 (Female) cable, 150cm

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