

T(P)GS-L6408XT

8 10/10/100/1000T + 4 10G Copper (w/8/10 PoE), EN50155 OS3
Managed Ethernet Switch; WVI / 24VI / 24TVI input































Lantech T(P)GS-L6408XT is a high performance OS3 Ethernet switch with 8 10/100/1000T + 4 1G/2.5G/5G/10G Copper. PoE model has 8/10 (incl.8 copper + 2 uplink 10GT copper) PoE 802.3af/at ports which provides advanced security function for network aggregation deployment.

Up to 8/10 PoE at/af ports w/advanced PoE management and PoE 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.

PoE galvanic isolation up to 1.5KVDC to provide power input to PoE Ethernet ports insulation prevents cabling and grounding incidents from damaging the Ethernet switch itself.

Lantech OS3 Platform with complete L2 management and upgradable optional L3 & communication protocols

The switch runs Lantech OS3 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), etc. To learn more about the Lantech OS3 Platform, please refer to Lantech OS3/OS4 Software Datasheet

Enhanced cybersecurity features with IEC 62443-4-1 certification

Lantech OS3 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 network security standard. To learn



more about Lantech cybersecurity software solution, please refer to Lantech OS3/OS4 Software Datasheet

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 OS3 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 email and traps. The factory reset pin can restore the setting back to factory default.

Optional smart bypass protection on dual 10G copper 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) can be activated when switch encounters power failure. (-BT/-BBT model)

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

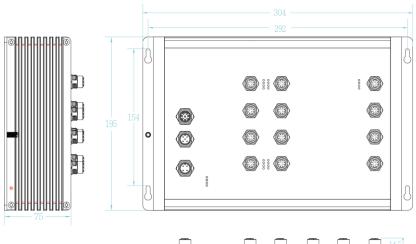
The switch accept $16.8\sim137.5$ VDC (WVI model); $9\sim36$ VDC (24VI model); $16.8\sim56$ VDC (24TVI model) dual input with Ethernet and PoE galvanic isolation and PoE model can feed 54V output for PoE feeding with 80W budget. The inrush current on initial power up can be limited lower than 10×10^{-2} x nominal current.

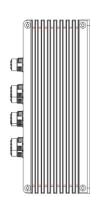
EN50155, EN45545-2; EN61373 compliance; Rugged design with high ESD protection

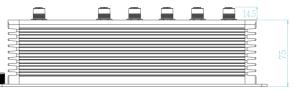
The switch is designed to meet with critical network environment with IP54/IP67 aluminum enclosure and M12 connectors for water proof. The switch passed serious tests under extensive Industrial EMI and Safety standards. With EN45545-2 Fire & Smoke and EN50155 verification, it is best switch for railway 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 S	pecification					
Standards	IEEE802.3 10Base-T Ethernet					
	IEEE802.3u 100Base-TX					
	IEEE802.3ab 1000Base-T					
	IEEE802.3ak 10Gbase-T					
	IEEE802.3x Flow Control and Back Pressure					
	IEEE802.3ad Port trunk with LACP					
	IEEE802.1d Spanning Tree					
	IEEE802.1w Rapid Spanning Tree					
	IEEE802.1s Multiple Spanning Tree					
	IEEE802.3ad Link Aggregation Control Protocol (LACP)					
	IEEE802.1AB Link Layer Discovery Protocol (LLDP)					
	IEEE802.1X User Authentication (Radius)					
	IEEE802.1p Class of Service					
	IEEE802.1Q VLAN Tag					
	IEEE802.3at/af Power over Ethernet					
Switch	Back-plane (Switching Fabric): 96Gbps					
Architecture	Zaon plano (emisimig i azno). coezpe					
Mac Address	16K MAC address table					
Jumbo frame	10KB					
Connectors	10/100/1000T: 8 x M12 8-pole X-coded with					
Connectors	10/100/1000T: 8 x M12 8-pole X-coded with Auto MDI/MDI-X function					
Connectors	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X-					
Connectors	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A-					
Connectors	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A- coded					
Connectors	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A- coded Reset/Console/USB: 1 x M12 8-pole A-coded					
Connectors Network Cable	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A- coded Reset/Console/USB: 1 x M12 8-pole A-coded DIDO: 1 x M12 5-pole A-coded					
	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A- coded Reset/Console/USB: 1 x M12 8-pole A-coded					
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Network Cable	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X-coded Power Input connector: 1 x M12 4-pole Male A-coded Reset/Console/USB: 1 x M12 8-pole A-coded DIDC: 1 x M12 5-pole A-coded 1000Base-T: 4-pair STP Cat5E/6 cable; 10G Copper: 4-pair STP Cat5E/6 cable Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green)					
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Network Cable	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A- coded Reset/Console/USB: 1 x M12 8-pole A-coded DIDO: 1 x M12 5-pole A-coded 1000Base-T: 4-pair STP Cat5E/6 cable; 10G Copper: 4-pair STP Cat6a/7 cable Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G/5G/10G port: speed (1G/2.5G/5G: Yellow; 10G:Orange) PoE: Link/Act (Green) (PoE model)					
Network Cable	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A- coded Reset/Console/USB: 1 x M12 8-pole A-coded DIDC: 1 x M12 5-pole A-coded 1000Base-T: 4-pair STP Cat5E/6 cable; 10G Copper: 4-pair STP Cat5E/6 cable; Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G/5G/10G port: speed (1G/2.5G/5G: Yellow; 10G:Orange) PoE: Link/Act (Green) (PoE model) 2 Digital Input (DI):					
Network Cable	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A- coded Reset/Console/USB: 1 x M12 8-pole A-coded DIDC: 1 x M12 5-pole A-coded 1000Base-T: 4-pair STP Cat5E/6 cable; 10G Copper: 4-pair STP Cat5E/7 cable Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G/5G/10G port: speed (1G/2.5G/5G: Yellow; 10G:Orange) PoE: Link/Act (Green) (PoE model) 2 Digital Input (DI): Level 0: -30~2V / Level 1: 10~30V					
Network Cable	Auto MDI/MDI-X function 1G/2.5G/5G/10G Copper: 4x M12 8-pole X- coded Power Input connector: 1 x M12 4-pole Male A- coded Reset/Console/USB: 1 x M12 8-pole A-coded DIDC: 1 x M12 5-pole A-coded 1000Base-T: 4-pair STP Cat5E/6 cable; 10G Copper: 4-pair STP Cat5E/6 cable; Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G/5G/10G port: speed (1G/2.5G/5G: Yellow; 10G:Orange) PoE: Link/Act (Green) (PoE model) 2 Digital Input (DI):					

	VDC, 50mA				
Operating	5% ~ 95% (Non-condensing)				
Humidity					
Operating	-40°C~70°C / -40°F~158°F (85°C operation for				
Temperature	10min.)				
Storage	-40°C~85°C / -40°F~185°F				
Temperature	DI DO :t				
Power Supply	Dual DC input 16.8~137.5VDC (WVI model) ;				
	9~36VDC (24VI model) ;				
	16.8~56VDC (24TVI model)				
PoE Budget (PoE	80W@24VDC				
model)	Higher PoE budget can be applied upon				
	request. **				
PoE pin	M12 port #1~#8 (-8 model) ; #1~#8; #9~#10 (-				
assignment (PoE	10 model); support IEEE 802.3at/af End-point,				
model)	Alternative A mode End-point. Per port provides				
	up to 30W				
Power	max. 44.8W exclude PoE loading				
Consumption					
Dimensions	IP54/IP67model: Aluminum case				
	304mm(W)x195mm(H)x89.5mm(D)				
Weight	3.45kgs				
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				
	BS EN61000-4-2, BS EN61000-4-3,				
	BS EN61000-4-4, BS EN61000-4-5,				
	BS EN61000-4-6, BS EN61000-4-8,				
	BS EN55032, BS EN55024				
Verifications	EN50155/EN50121-3-2/EN50121-4;				



	EN45545-1, EN 45545-2 Fire & Smoke verification
	Volimoution
Stability Testing	EN61373 (Shock and Vibration)
MTBF	TBC (standards: IEC 62380)
Warranty	5 years
Bypass**	Up to two pairs copper bypass module on 10G copper ports to pass to next switch in case of
	copper perio to pace to next entier in cace of

	power failure			
Software Specification				
Lantech OS3	Download Software Datasheet			
Platform	Download Software DataSheet			

*Future release **Optional

ORDERING INFORMATION

All model packages include M12 caps. For optional bypass add –BT (one pair) & –BBT (two pairs) to end of model names. Optional coating add a –C at the end of each model names.

 $8\,10/100/1000T + 4\,10G$ Copper M12 X-coded with 8 PoE at/af EN50155 OS3 Managed PoE Ethernet Switch; $16.8V\sim137.5VDC$ dual input; $-40\sim70C/-40\sim158F$; IP54 housing w/ PoE galvanic isolation

■ TPGS-L6408XT-10-54-WVI......P/N: 8361-6381

 $8\ 10/100/1000T + 4\ 10G\ Copper\ M12\ X-coded\ with\ 10\ PoE\ at/af\ incl. 2\ 10GT\ EN50155\ OS3\ Managed\ PoE\ Ethernet\ Switch\ ; \\ 16.8V-137.5VDC\ dual\ input\ ; -40~70C/-40~158F\ ; IP54\ housing\ w/\ PoE\ galvanic\ isolation$

■ TGS-L6408XT-54-WVI......P/N: 8361-6382

 $8\ 10/100/1000T + 4\ 10G\ Copper\ M12\ X-coded\ EN50155\ OS3\ Managed\ Ethernet\ Switch\ ;\ 16.8V-137.5VDC\ dual\ input\ ;\ -40-70C/-40-158F\ ;\ IP54\ housing\ w/\ galvanic\ isolation$

■ TPGS-L6408XT-8-67-WVI......P/N: 8361-6383

 $8\,10/100/1000T + 4\,10G$ Copper M12 X-coded with 8 PoE at/af EN50155 OS3 Managed PoE Ethernet Switch; $16.8V \sim 137.5VDC$ dual input; $-40 \sim 70C/-40 \sim 158F$; IP67 housing w/ PoE galvanic isolation

■ TPGS-L6408XT-10-67-WVI......P/N: 8361-6384

8 10/100/1000T + 4 10G Copper M12 X-coded with 10 PoE at/af incl.2 10GT EN50155 OS3 Managed PoE Ethernet Switch; $16.8V \sim 137.5VDC$ dual input; $-40 \sim 70C/-40 \sim 158F$; IP67 housing w/ PoE galvanic isolation

■ TGS-L6408XT-67-WVI.......P/N: 8361-6385

 $8\ 10/100/1000T+4\ 10G\ Copper\ M12\ X-coded\ EN50155\ OS3\ Managed\ Ethernet\ Switch\ ;\ 16.8V\sim137.5VDC\ dual\ input\ ;\ -40\sim70C/-40\sim158F\ ;\ IP67\ housing\ w/\ galvanic\ isolation$

■ TPGS-L6408XT-8-54-24VI......P/N: 8361-63801

 $8\,10/100/1000T + 4\,10G\ Copper\ M12\ X-coded\ with\ 8\ PoE\ at/af\ EN50155\ OS3\ Managed\ PoE\ Ethernet\ Switch\ ;\ 9V-36VDC\ dual\ input\ ;\ -40~70C/-40~158F\ ;\ IP54\ housing\ w/\ PoE\ galvanic\ isolation$

■ TPGS-L6408XT-10-54-24VI......P/N: 8361-63811

8 10/100/1000T + 4 10G Copper M12 X-coded with 10 PoE at/af incl.2 10GT EN50155 OS3 Managed PoE Ethernet Switch; 9V~36VDC dual input; -40~70C/-40~158F; IP54 housing w/ PoE galvanic isolation

■ TGS-L6408XT-54-24VI......P/N: 8361-63821

 $8\ 10/100/1000T + 4\ 10G\ Copper\ M12\ X-coded\ EN50155\ OS3\ Managed\ Ethernet\ Switch\ ;\ 9V\sim36VDC\ dual\ input\ ;\ -40\sim70C/-40\sim158F\ ;\ IP54\ housing\ w/\ galvanic\ isolation$

■ TPGS-L6408XT-8-67-24VI......P/N: 8361-63831

 $8\,10/100/1000T + 4\,10G$ Copper M12 X-coded with 8 PoE at/af EN50155 OS3 Managed PoE Ethernet Switch; 9V-36VDC dual input; -40-70C/-40-158F; IP67 housing w/ PoE galvanic isolation

■ TPGS-L6408XT-10-67-24VI......P/N: 8361-63841

8 10/100/1000T + 4 10G Copper M12 X-coded with 10 PoE at/af incl.2 10GT EN50155 OS3 Managed PoE Ethernet Switch; $9V\sim36VDC$ dual input; $-40\sim70C/-40\sim158F$; IP67 housing w/ PoE galvanic isolation

■ TGS-L6408XT-67-24VI......P/N: 8361-63851

8 10/100/1000T + 4 10G Copper M12 X-coded EN50155 OS3 Managed Ethernet Switch; 9V~36VDC dual input; -40~70C/-40~158F: IP67 housing w/ galvanic isolation

■ TPGS-L6408XT-8-54-24TVI......P/N: 8361-63802

8 10/100/1000T + 4 10G Copper M12 X-coded with 8 PoE at/af EN50155 OS3 Managed PoE Ethernet Switch ; 16.8V~56VDC dual input ; -40~70C/-40~158F ; IP54 housing w/ PoE galvanic isolation

■ TPGS-L6408XT-10-54-24TVI......P/N: 8361-63812

 $8\ 10/100/1000T + 4\ 10G\ Copper\ M12\ X-coded\ with\ 10\ PoE\ at/af\ incl. 2\ 10GT\ EN50155\ OS3\ Managed\ PoE\ Ethernet\ Switch\ ; \\ 16.8V\sim56VDC\ dual\ input\ ; -40\sim70C/-40\sim158F\ ; IP54\ housing\ w/\ PoE\ galvanic\ isolation$

■ TGS-L6408XT-54-24TVI......P/N: 8361-63822

 $8\ 10/100/1000T + 4\ 10G\ Copper\ M12\ X-coded\ EN50155\ OS3\ Managed\ Ethernet\ Switch\ ;\ 16.8V-56VDC\ dual\ input\ ;\ -40~70C/-40~158F\ ;\ IP54\ housing\ w/\ galvanic\ isolation$

■ TPGS-L6408XT-8-67-24TVI......P/N: 8361-63832

 $8\,10/100/1000T + 4\,10G$ Copper M12 X-coded with $8\,PoE$ at/af EN50155 OS3 Managed PoE Ethernet Switch; 16.8V-56VDC dual input: $-40\sim70C/-40\sim158F$; IP67 housing w/ PoE galvanic isolation

■ TPGS-L6408XT-10-67-24TVI......P/N: 8361-63842

8 10/100/1000T + 4 10G Copper M12 X-coded with 10 PoE at/af incl.2 10GT EN50155 OS3 Managed PoE Ethernet Switch; 16.8V~56VDC dual input; -40~70C/-40~158F; IP67 housing w/ PoE galvanic isolation

TGS-L6408XT-67-24TVI......P/N: 8361-63852

8 10/100/1000T + 4 10G Copper M12 X-coded EN50155 OS3 Managed Ethernet Switch; 16.8V~56VDC dual input; -



40~70C/-40~158F ; IP67 housing w/ galvanic isolation

OPTIONAL ACCESSORIES

Software package

Please refer to the software datasheet

M12 Connector & Cable

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■ 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

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 8 pin M12 (Male) A-coded 180 degree M12 to USB2.0 to DB9 (Female) cable, 150cm

DB9+USB2.0-1.5M CABLE

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