

Industrial Ethernet Switching

PIGE-16T-4S-G



Industrial Gigabit Ethernet Switch, with 16 x 10/100/1000Mbps PoE Ports and 4 x SFP Ports.



- **Supports 16 x 10/100/1000 Base-TX-PoE Ports and 4 Gigabit SFP Ports and 1 x Console Port.**
- **56Gbps Backplane 29.76 Mpps throughput**
- **Supports 10K Bytes Giant Frame**
- **Supports Spanning Tree (802.1D), Rapid Spanning Tree (802.1W), 802.1s (MSTP, ERPS (G.8032))**
- **Supports IEEE 802.1Q 4K VLAN, GVRP, GMRP, Q-in-Q**
- **Support IEEE 1588**
- **Dynamic IEEE 802.3ad LACP & Static Link Aggregation**
- **Support for IEEE 802.3az energy efficient Ethernet Technology**

The Case Communications PIGE 16T-4S-G Industrial Switch, has 16 Gigabit auto-sensing RJ45 PoE Ports, providing 15.4 watts (IEEE 802.3af) / PoE+ 30 Watts (IEEE 802.3at) or PoE++ 60 /90 watts (IEEE 802.3bt) (On the bt model) and is equipped with 4 x Gigabit SFP Fibre Ports. The PIGE 16T-4S-G has been designed with high levels of security and reliability in mind. Resilience is provided by Ring Redundancy using STP, RSTP or ERPS (G.8032). In addition, other benefits such as VLAN Trunking, Quality of Service, Data Rate Control, Port Mirroring, Fault Alarms and online firmware upgrades make the PIGE 16T-4S-G a highly functional switch.

The PIGE 16T-4S-G has been built using industrial grade components ensuring high levels of resilience, with an IP40 housing it allows the PIGE-16T-4S-G to operate in the hardest of conditions, operating from -40C to +85C without the use of fans. The PIGE 16T-4S-G is supplied with dual power supply inputs taking in 48vdc to 55vdc via its 4-pin terminal block.

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FACT SHEET

Description	PIGE-16T-4S-G
PoE Ports	16x10/100/1000Tx RJ45 PoE / PoE+ Ports (PoE++60/90 Watts on bt version)
Fibre Ports	4 x 100 / 1000Mbps SFP Optical Ports.
Network Standards	IEEE802.3, IEEE802.3u, IEEE 802.3z, IEEE802.3ab, IEEE 802.3az, IEEE 802.3ad, IEEE802.3ah, IEEE802.1Q, IEEE 1588
PoE Standards	16 x IEEE 802.3af / IEEE 802.3at PoE Max Switch Power is 250 watts IEEE802.3bt model version Max power 600 watts
Software Features	
Port Management	Port-based ingress / egress speed limit Full duplex IEEE 802.3x Half Duplex back-pressure flow control Broadcast Storm suppression, unknown-Multicast suppression and unknown-Unicast suppression
Spanning Tree Protocols	Spanning Tree Protocol (STP) 802.1s Rapid Spanning Tree Protocol (802.1w) Multiple Spanning Tree Protocol (MSTP) 802.1s
Ring Protocols	ERPS (based on ITU-T G. 8032)
Link Aggregation	Static Manual aggregation LACP Dynamic Aggregation IEEE 802.3ad
VLAN	IEEE 802.1Q 4K Tag Based VLANS, Q-in-Q, GVRP, GMRP
DHCP	Server / Client / Relay Option 82 / snooping.
Multicast	IGMP Snooping V1/2A / 3
LLDP	IEEE 802.1ab LLDP
Management	
Management	SNMP v1 / v2c / V3, Web based, CLI, Telnet, SSL / SSH v2, MIB II
Diagnostics	Port Mirroring, Ping, RMON, MIB II
Security	DHCP Server/Client /Relay Option 82/snooping user hierarchical Management
Port based security	Port based & MAC based IEEE 802.1X, ACL, HTTP / HTTPS, SSL / SSHv2
Software Upgrades	Via HTTP, redundant firmware to avoid software update failures
Hardware	
Housing	IP40 Aluminium Housing
Redundant Power Inp	DC 9 – 56V
Power In	Phoenix Terminal - DC
Overload Protection	Yes
Power Consumption	Full Load <15W (excluding) PoE ports 595Watts with all ports PoE+
Temperature	Operating -40C ~ +75C, Storage -40C ~ 85C, 5%~90% Non-Condensing
Cooling	Fan-less design
Dimensions	160mm(h) x 140mm(d) x 75mm (w)
Weight	1.05kg (with packaging 1.1Kg)

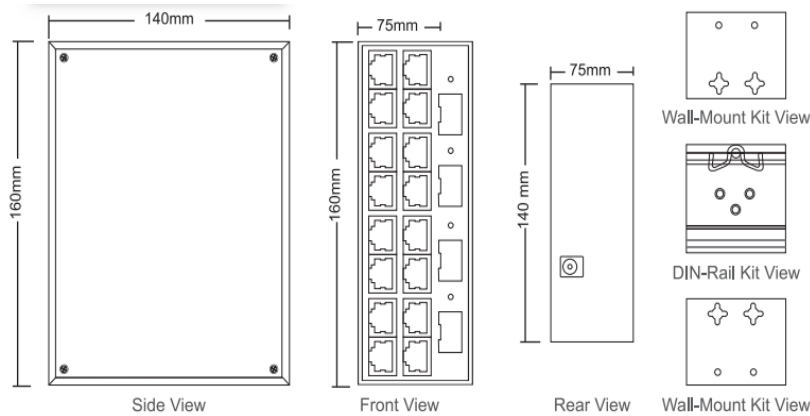
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Performance	
Performance	Backplane – 56Gbps, Packets Per Second (64Byte) = 29.76Mpps
Transit Delay	<7ps
Packet Buffer	4M
Maximum Packet	10Kb
Certification and Approvals	
EMC	FCC Part 5 Class A
	CE-EMC / LVD
	EN61000-4-2 (ESD)
	EN61000-4-3 (RS)
	EN61000-4-4 (EFT)
	EN61000-4-5 (Surge)
	EN61000-4-6 (CS)
	EN61000-4-8
EN61000-4-11	
Vibration	IEC 60068-2-6
Temperature test	-40C ~ +75C High and Low Temperature Tests

Dimensions



Package List

- 1 x Fiber Switch
- 1 x Rail Mounting Kit
- 1 x Wall Mount Kit
- 1 x Warranty Card

Part Number	Description
PIGE-16T-4S-G	Industrial Managed Ethernet Switch with 16 Gigabit PoE / PoE+ ports, 4 x SFP Gigabit ports (Max Power 250 watts for switch)
PIGE-16T-4S-G-BT	As above but with PoE++ (60 watts or 90 Watts) Tx Ports (Max power 600 watts for switch)