

Industrial Ethernet Switches

PIGE 8T 4S-MX



Features

- 8 x IEEE 802.3 at / af PoE Gigabit ports
- 4 x 100/1000 SFP ports
- RSTP / STP and X-Ring pro for resilience (recovery time <20ms)
- Security. 802.1x (port based MD5/TLS/TTLS/PEAP Encryption, RADIUS)
- -40C~+75⁰C operating temperature
- Dual 24-48vdc power input
- 1 Relay alarm output

Introduction

The Case Communications PIGE 8T 4S MX supports 8 x Gigabit Power Over Ethernet (PoE) ports and 4 x 100 / 1000 Mbps SFP ports. It can provide up to 30 watts per port to provide power to high power consumption devices. The PIGE 8T 4S MX is fully managed and supported by an SNMP Network Management System such as CaseView. The switch is also equipped with advanced ring technology allowing it to self-heal in under 20ms.

Hardware Specifications			
Interface		Certification	
I/O Ports	8 x 10/100/1000Base-T/TX rj45 4 x 100 / 1000 Mbps SFP	EMI	CE (55011/55022) Class A
Console port	RS-232 (RJ45)	FCC	FCC Part 15 Subpart Class A
Pwr Connector	6-Pin screw terminal block (includes relay)	Safety	UL 508, UL 60950, C1D2
PoE / PoE+	Per Port 802.3af / 802.3at	ESD (Level 3)	IEC 61000-4-2 (Level 3)
Physical		Radiated RFI	EN61000-4-3 (Level 3)
Housing	Metal shell	Burst EFT	EN61000-4-4 (Level 3)
Protection	IP30	Surge	EN61000-4-5 (Level 3)
Installation	DIN rail & Wall Mount	Induced RFI	EN61000-4-6 (Level 3)
Dimensions mm	74(w) x 152 (h) x 105(d)	Magnetic Field	EN61000-4-8 (Level 3)
Dimensions inch	2.91"(w) x 5.98"(h)x 4.13" (d)	Shock	IEC 600068-2-27
		Freefall	IEC 600068-2-32
		Vibration	IEC 600068-2-6
LED Displays		Special Application certificates	
System LED	PWR1, PWR2, SYS, CFG, Alarm and R.M	Traffic Control	NEMA TS2
Ports LED	Link / Speed / Activity / PoE	ATEX	Compliant
		Hazardous Environment	Class 1 Division 2
Environment		Railway	EN 50121-4
Operating Temp	-40~+75 ⁰ C (-40-167 ⁰ F)	Hardware	
Storage Temp	-40~+85 ⁰ C	Switching Capacity	24Gbps
Ambient Relative Humidity	10-95% (non-condensing)	Packet buffer	4.1Mb
Humidity	10-95% (non-condensing)	MAC Addresses	8K
		Jumbo Frame	9216 Bytes
Power		Watchdog timer	In Hardware
Power consumption	15W@48vdc (Max system)	Reset button	Factory Default
Power Input	48Vdc redundant dual power input	PoE IC	Present
PoE Power Budget	240W		
Fault Output	1 Relay Output		
Reverse Polarity	Protected		
Overload current	Protected		
802.3az	Energy Saving		

FACT SHEET

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SOFTWARE FEATURES					
Flow Control	802.3x (Full duplex)	QoS Features			
	Back Pressure (half duplex)	Priority Queue			
Redundancy	IEEE 802.1D (STP)	Rate Limiting	Port based (Ingress / Egress)		
	IEEE 802.1w (RSTP)	Queue Scheduling	WRR		
	IEEE 802.1s-MSTP		WFQ		
	Auto Edge Port		Strict Priority		
	Loop detection		Hybrid (WRR+SR or WFQ+ SP)		
X-Ring-Pro self-healing <20ms	Class of Service	Port based			
Static VLAN		802.1p			
Port based VLAN		IP ToS Precedence			
VLAN	IEEE 802.1q Tagged VLAN	Security	IP DSCP		
	Q in Q (VLAN Stacking)				
	VLAN Group 256 (VLAN ID 1-4094)				
	IP V6 GVRP				
Link Aggregation	IEEE 802.3ad LACP	Management	Broadcast		
	Static Trunk			Storm control	
	Max Group				Unknown Multicast
	Max. Ports / Group				Unknown Unicast
Traffic Load Balancing	Account manager	DOS Prevention			
IGMP Snooping		Multicast groups	CLI Management	Local Authentication	
		IGMP v1/v2		Multiple User Accounts	
		IGMP v3 Basic (BISS)		Multi-level security (manager/ operator)	
	IGMP v2 / v3 Querier	Management VLAN			
Immediate leave	Web Based	CLI Console / Telnet RFC 854			
IEEE 802.1AB	Link Layer discovery (LLDP)	SNMP	HTTP / HTTPS		
		MIBS	v 1/v 2c /v3		
DHCP	Client	MIBS	RFC 1213 MIB II (System & Interfaces)		
DNS	Client	MIBS	RFC 2819 RMON 1 (1,2,3& 9 Groups)		
Diagnostics	Cable Diagnostics	Time Setting	Local / SNTP		
	Port Mirroring one to many	Port Naming	Friendly Port description		
	Ping test	Reset	Software reset button		
System Log	Remote Server	Access Security	SSH2.0, SSL		
	Local RAM	Up/Download	TFTP (RFC783) / HTTP		
	Local FLASH	File Management	Firmware upgrade / backup		
IP V6 Features			Dual Images		
Auto Configuration	Yes		Configuration up / download		
IPV6 Address	Static IPV6 Address & Prefix length	IP V6 Applications			
Gateway	Static IPV6 Default Gateway	HTTP / HTTPS	TFTP		
Discovery	IPV6 Neighbourhood Discovery	TELNET	PING		
ICMP	ICMP V6	Duplicate Address	IPV6 Duplicate Address Detection		
		SNMP	DHCP V6		

IEEE Standards at a glance

IEEE 802.3	IEEE 802.3u	IEEE 802.3x	IEEE 802.3z	IEEE 802.3ad	IEEE 802.3ab	IEEE 802.3af
IEEE 802.1D	IEEE 802.1w	IEEE 802.1p	IEEE 802.1Q	IEEE 802.1X	IEEE 802.1s	IEEE 802.3at

Ordering Information

PIGE 8T 4S-MX	8GE PoE / PoE+ ports, 4 x SFP 100/1000 Managed Industrial Switch.
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