Industrial Ethernet Switches
PIGE 8BT-4S-R

- **8 x 802.3 af/at/bt 10/100/1000Base-TX PoE++ Ports**
- **4 x 100/1000Base - SFP Ports.**
- **Advanced PoE Management -smart settings, scheduling, and budget settings.**
- **Priority system for PoE Ports supply high priority when the budget is insufficient.**
- **Full Gigabit L2+ management easy to manage CLI/Web/SNMP**
- **Redundancy- STP / RSTP / MSTP / ERPSv2**
- **Security RADIUS IEEE 802.1X, SNMPv3, HTTPS & SSH**
- **Bandwidth Management prevents unpredictable network issues with the ability to lock a port or restrict access**
- **QoS Priority based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP + WRR**

Fact Sheet

Technical Specifications

Product name	PIGE 8BT 4S R
Performance and switching capacity	
Switching Capacity	28Gbps
Max Packet Length	Up to 9Kb
Transit Delay	7μs
Packet Buffer	2M
MAC Address Table	4K
Switching	Store and forward
Interfaces	
Ports PIGE 8T-4S-G	Ports 8 x 10/100/1000Mbps Tx @ PoE+++, 4 x 100 / 1000 Mbps SFP Ports
PoE Standard	8 x IEEE 802.3af /at/bt
Power Budget	Maximum of 90 watts per port.
Console Port	1 x RJ45 RS 232 serial port, 115,200bps
PoE and Power Supply	
Power Supply Pins	Default: 1 /2 (+), 3/6 (-) or 4/5 (+) 7/8 (-)
Maximum pwr per port	90 watts
Input Power	480W (DC 48v – 56vdc) depending on PoE Load
Power Consumption	10 watts without PoE Load
Power Inputs	Two
Operating Voltage	90W PoE Mode 52-56vdc, 30W mode 48-56vdc, non PoE Mode 9 – 56vdc
Connector	1 x Removable 6 contact terminal block. Pin 1 / 2 Pwr, 3 / 4 Pwr 2, 5/6 Alarm
Protection	Overload Current protection, Reverse Polarity Protection

Physical			
Protection	IP 40 Aluminium Housing		
Cooling	Fan-less design, natural cooling		
Dimensions	138mm(h) x 108mm(d) x 45mm(w)	**Weight**	680gms
Operating Temp	-40^{0}C ~ +75^{0}C	**Storage Temp**	-40^{0}C ~ +85^{0}C
Operating Humidity	5% ~ 90% non-condensing		
MTBF	907, 476 hours @ Telcordia SR 332 Standard		
Heat Dissipation	34 BTU/h Non PoE, 853 BTU/h (with 240 watts PoE Load)		
Noise Level	0dBA		

SOFTWARE SPECIFICATIONS	
Redundancy	STP / RSTP/ MSTP ERPS V2, Link Aggregation
Multicast	Support for IGMP Snooping, V1 / V2 / V3, GMRP, GVMP, 802.1Q
VLAN Support	IEEE 802.1Q 4K VLAN Support for Q-in-Q, Double VLAN
Time Management	SNTP
Quality of Service	Flow based re-direction
	Flow based rate limiting
	Flow based packet filtering

Fact Sheet

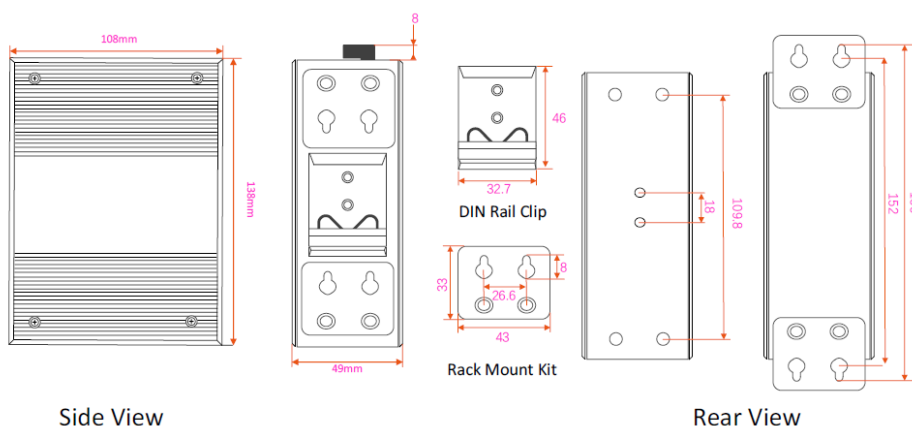| SOFTWARE SPECIFICATIONS CONTINUED	
Access Control Lists	8 x Output queues on each port 802.1p / DSCP priority mapping
	Diff-Serv QoS, Priority Mark / Remark
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
	Port based issuing ACL
	ACL Based on Port and VLAN
	L2 to L4 packet filtering matching first 80 bytes of message
	ACL Based on MAC, Destination MAC address, IP Source & Destination IP address
	IP Protocol Type, TCP/UDP Port, TCP / UDP Port Range and VLAN
PoE Management	Total Power Limit of the PoE Power Supply
	PoE Output power allocation
	PoE output priority configuration
	PoE working status
	Scheduling of PoE operation
Diagnostics	Support for CLI / Wb, SNMP v1, V2/ V3, Telnet server management, EEE, LLDP
	DHCP Server / Client (IPv4 / IPv6) Cloud / MQTT
Alarm Management	1 Way relay alarm output, RMON and TRAPs
Security	Broadcast Storm Protection HTTPS / SSlv3, AAA & RADIUS, SSH2.0
	Support for DHCP Snooping, Option 82, 802.1X Security Access (RADIUS)
	Support using hierarchical management, ACL Access Control List
	Support DDOS, Port Based MAC Filtering / Binding, MAC Black Holes,
	IP Source Protection, Port Isolation, ARP Message Speed Limiting.
Advanced Layer 2+	IPv4 / IPv6 Management, Static Routes

LEDS		
Power (P1 & 2)	On = Power On	Off= No Power
Run	Blinking = The System is running	
Alarm	On = The system has an alarm.	Off= No System Alarms
Link / Act (1-2)	On = Port is active, Data is being Transmitted	Off= Port is not active

Standards	
Safety	IEC / EN 62368-1
EMI	EN55032 Class A, CISPR 32, FCC Part 15B Class A
EMS	EN 61000-4-2 (ESD), EN 61000-4-4 (RS0 EN 61000-4-5 (Surge)
	EN 61000-4-6 (CS), EN 61000-4-8 (PFMF)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environment	RoHS

Side View

DIN Rail Clip

Rack Mount Kit

Rear View

Ordering Information	Description
PIGE 8BT 4S-R	Industrial Managed Ethernet Switch, 8 x Gig PoE+++ Ports, 4 x Gig SFP ports, ERPSv2, Fan-less Operation -40C ~ +75C

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