

Industrial Ethernet Switches

PIXE L3 8BT-4S-R



- 8 x IEEE 802.3 af/at/bt POE + Ports
- 4 x 10Gbps SFP Ports
- Advanced PoE Management Functions
- Dual DC / AC Power Supplies
- Layer 3 supporting OSPFv2m RIPv2 and Static routes
- TACAS+, SNMPv3, IEEE802.1X, HTTPS & SSH
- Link Aggregation, STP/RSTP/ MSTP/ERPS for redundancy
- RMON for proactive network monitoring
- Redundant dual AC/DC Power Supplies
- IP40 Housing rated -40°C to +70°C

Technical Specifications

Product name	PIXE L3 8T 4S R		
Performance and switching capacity			
Capacity in MPPS	17.85Mpps		
Switching Capacity	128Gbps		
Max Packet Length	Up to 10Kb		
Packet Buffer	12Mbits		
MAC Address Table	16K		
Transmission	Store and Forward	Transit delay: 7ms	
Power Supply			
PoE Supply Pins	Default: 1 / 2 (+) 3.6 (-), 4/ 5 (+), 7 / 8 (-)		
Total Power Input	Redundant dual Inputs Voltage DC48-56vdc (360 watts)		
Power Consumption	24 watts without PoE		
Power Inputs	Dual Power Inputs		
Operating Voltage	Non PoE (9-56vdc), 30Wa PoE (48-56vdc) 90W PoE Mode (52-56vdc)		
Power Connectors	Pins 1 / 2 for PSU1, Pins 3 / 4 for PSU 2, Pins 5 / 6 for fault alarm		
Protection	Overload Current Protection and Reverse Polarity Protection		
Interfaces			
Ports	2x 1/2.5G / 10G SFP Ports (9 & 11), 2 x 1G/10G SFP+ (Ports 10 & 12)		
PoE Standard	8 x 1 Gbps IEEE 802.3af /at/bt PoE		
Power Budget	Maximum of 90 watts per port. Max 360 watts per switch (DC48-56vdc)		
LED Indicators			
Power	ON: Power present OFF: No Power		
Operating	Blinking: Operating well		
Link / ACT	ON: Port is active Blinking: Data transmitted: OFF: Port not active		
RJ45 Port rate	ON: 1Gbps operating OFF: 1Gbps not running		
ALM	ON: Switch has an alarm : OFF: Switch has no alarm		
Physical			
Protection	IP 40 Aluminium Housing		
Cooling	Fan-less design, natural cooling		
Dimensions	L138mm x W108mm x H49mm	Weight	680g
Operating Temp	-40°C ~ +75°C	Storage Temp	-40°C ~ +85°C
Operating Humidity	5% ~ 95% non-condensing		
Heat Dissipation	34 BTU (Non Poe) 853 BTU (240 watt Load) 1262 BTU (360 watt load)		

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Fact sheet

SOFTWARE SPECIFICATIONS	
Management Interface	CLI (Console, Telnet RFC854), Web Gui (HTTPS) SNMPv3
Management	UDLD, Port Mirroring, RMON, SNMPv1/v2/v3, Sys Log, Telnet
Management Access	Management VLAN, Management ACL 256
Diagnostics	Port Mirroring, System Log, Ping
File Management	Firmware Upgrade / Backup, dual images, configuration download / back up, Multiple configurations, TFTP (RFC 783), HTTP, UART
Alarm Management	1 way relay alarm output, RMON, MIB II, SNMP Traps, System Log, DNS
Redundancy	Link Aggregation, STP / RSTP / MSTP / ERPSv2, Auto-edge Port BDPU Filtering, Self Loop Detection
Filtering	802.1Q, GMRP, GVRP, IGMP Snooping, v1/v2/v3, IGMP Querier V2/V3, Q-in-Q VLAN
VLANS	Support for IEEE 802.1Q, 4K VLANS, Q-in-Q, Double VLANS, Voice VLAN Surveillance VLAN (Auto/Manual) Multicast VLAN Registration (MVR)
Time Management	Local SNTP, NTP
Unicast Routing	OSPFv2, RIPv1/v2, Static routes
Quality of Service	Support for Queue Scheduling (WRR, WFQ, Strict Priority, Hybrid (WRR + SP or WFQ + SP): Priority Queue (8 Queues / Port): Class of Service (Port-based 802.1p, IP ToS Precedence, IP DSCP) Trusted QoS, Rate Limitation
ACL Type	L2 / L3 / L4, MAC-based, IPv4 based, IPv6 based
PoE Management	PoE Working Status, Scheduling of PoE Operation
Security	Broadcast Storm Control, HTTPS/SSLv2v3, TLSv1, RADIUS, TACAS+, AAA SSHv1/v2, Support for DHCP Snooping, Option 43/82, 802.1X Security Access. Support for user hierarchical management, ACL Access Control List, Support DOS, Port-based MAC Filtering / Binding, MAC Whitelist
MIBs	Ethernet -like MIB. MIB-II, MIB-1, Bridge-MIB, Bridge MIB extensions, RMON, MIB (1,2,3 & 9 groups, RFC 2737 Entity, RFC 2863 Interface Group, SNMP Community -MIB
Certification and Standards	
EMC / EMI / EMS	FCC Part 15 Class A, CE-EMC / LVD, RoHS EN61000-4-2 (ESD) Level 4 IEC6100-4-2 (EFT) Level 4 IEC6100-4-2 (Surge) Level 4 IEC6100-4-2 (CS) Level 3 IEC61000-4-2 (PFMP) Level 5 EN61000-4-3 (RS) Level 4
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-17
Freefall	IEC 60068-2-31
Safety	EN 60950-1, UL 60950-1, CSA C22.2 No 60950-1

Ordering Information	Description (30W version)
PIXE L3 8T 4S-R	Industrial Ethernet Switch, 8 x Gig PoE at/af Ports, 4 x 10 Gig SFP ports, SNMP Management, G.8032, Fan-less Operation -40C ~ +75C
Ordering Information	Description (90W bt version)
PIXE L3 8BT 4S-R	Industrial Ethernet Switch, 8 x Gig PoE at/af/bt Ports, 4 x 10 Gig SFP ports, SNMP Management, G.8032, Fan-less Operation -40C ~ +75C