



AVCOMM®

8008GX2-PN

Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.



AVCOMM Technologies, Inc

www.avcomm.us

Email: info@avcomm.us

Phone: (713) 933-4534

Address: 333 West Loop North, Suite 460
Houston, TX 77024
United States

PROFINET I/O Gigabit Switches

8008GX2-PN

Industrial 8-port PROFINET I/O Profile Gigabit Managed Ethernet Switch

8008GX2 provides 8-port PROFINET I/O Profile gigabit Ethernet including 6-port 10/100/1000 BaseT(X) RJ45 and 2-port 100/1000 BaseSFP. 8008GX2-PN offer PROFINET I/O functionality that can be integrated into STEP 7 management tool. 8008GX2-PN is full Gigabit Ethernet switch, providing 8 Gigabit ports for upgrading the existing network infrastructure to full gigabit speed. With the powerful features, 8008GX2-PN is easily to prioritize, partition and organize user's network and provide reliable and quality services that fit perfectly into factory automation applications.



PROFINET

- PROFINET standard v2.32
- PNIO System Redundancy
- MRP: Media Redundancy
- L2 wire-speed switching engine

Full Gigabit

- 9K Jumbo frames
- 8K MAC forwarding addresses
- Network redundant Port Trunking, Spanning tree (STP, RSTP & MSTP) and Ring Protection (recovery < 20ms)

L2+ Managed

- Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Protocol-based VLAN
- SPQ, WRR and SPQ+WRR scheduling; 8 queues per port
- Multicasting support IGMP v1/v2/v3, proxy & snooping
- Multicast/Broadcast/Flooding Storm Control
- IEEE802.1x access control with RADIUS Client
- Support of LLDP

EN 50121-4

- Dual power input (12~58 VDC) & Reverse power protection
- Hi-POT 1.5kV
- Din-rail and Wall mounting options
- IP30

-40~75°C



Ordering Information

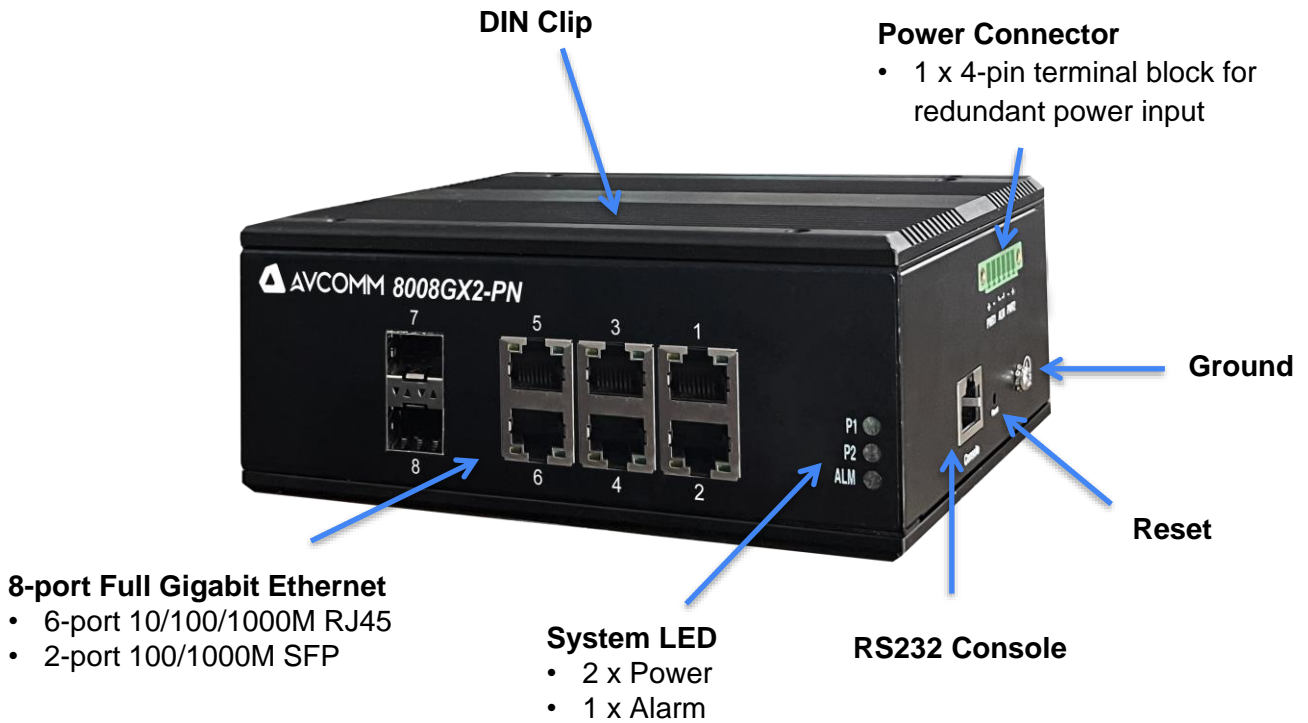
Model Name	Description
8008GX2-PN	Industrial 8-port PROFINET I/O Profile Managed Gigabit Ethernet Switch, 6-port 10/100/1000 BaseT(X) RJ45 and 2-port 100/1000 BaseSFP, DIN-Rail, Dual Power Input 12-58 VDC, -40 to +75°C

Technology	
Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper
	IEEE 802.3u 100Base-FX Fast Ethernet Fiber
	IEEE 802.3z Gigabit Ethernet Fiber
	IEEE 802.1D STP
	IEEE 802.1w RSTP
	IEEE 802.1s MSTP
	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
	IEEE 802.1p QoS
	IEEE 802.1Q tag-based VLANs
	IEEE 802.1X authentication Network Access Control
Performance	
Operating mode	Store and forward, L2 wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Interface	
Ethernet Port	8008GX2-PN: 6-port 10/100/1000 BaseT(X) RJ45 and 2-port 100/1000 BaseSFP
System LED	2 x Power: Green On, 1 x Alarm: Red On
Reset	System reboot
Console	1 x RS232 in RJ45 for system configuration. Baud Rate: 115200bps
Ethernet Port LED	Link (Green On), Activity (Green Blinking), Speed 1000M(Amber On), Speed 100M (Off)
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Ethernet Isolation	1500 VRMS 1 minute
Auto-negotiating	10/100/1000 Mbps speed auto-negotiation; Full and half duplex
Power Input	Redundant input terminals
Power Requirement	
Input Voltage	12-58 VDC
Reverse power protection	Yes
Transient protection	> 15,000 watts peak
Power Consumption	14W
Network Redundancy	
Fast failover protection rings	Link loss recovery < 20ms Single & Multiple rings; dual-homing; ring-coupling
Spanning Tree Protocol	IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
Bridge, VLANs & Protocols	
Flow Control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	256
VLAN Types	Port-based VLANs, IEEE 802.1Q tag-based VLANs

Multicast protocols	IGMP v1, v2 and V3 IGMP snooping and querying, Immediate leave and leave proxy, Throttling and filtering
GVRP	Yes
PROFINET	PROFINET standard v2.32
MRP	Media Redundancy Protocol
LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Traffic management & QoS	
QoS	IEEE 802.1p QoS
Number of queues per port	8
Scheduling schemes	SPQ, WRR, SPQ+WRR
Traffic Shaper	Port-based shaping
Security	
Port security	IP and MAC-based access control IEEE 802.1X authentication Network Access Control
Storm Control	Multicast/Broadcast/Flooding Storm Control
Management	
User Management interfaces	Cisco-like CLI (command line interface) ,WEB-based Management, SNMP v1, v2c and v3 Telnet
PROFINET	PROFINET GSD file, PROFINET I/O parameters, I/O cyclic data
Management Security	HTTP, HTTPs, SSH
Upgrade & Restore	Radius Client for Management, Configuration Import/Export, Firmware Upgrade
Diagnostic	Syslog, Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9; RFC 2674 Q-Bridge MIB RFC-1213 MIB-II; RFC-1493 Bridge MIB; RFC 2233 IF MIB
DHCP	Client, Server, Relay, Snooping
SNTP	Yes
System status	Device info/status; Ethernet port status
Mechanical	
Installation	DIN-Rail mounting, Wall mounting
Enclosure Material	Steel Metal
Dimension	154mm(H) x 109mm(D) x 60mm(W) without DIN Rail Clip
Ingress Protection	IP30
Weight	~1056g without package
Environmental	
Operating Temperature	-40°C~75°C
Humidity	5%~95% Non- Condensing
Storage Temperature	-40°C~85°C
MTBF	463,158 hours
Warranty	5 years

Standard		
Vibration, shock & freefall	IEC68-2-6, -27, -32	
Certification compliance	CE/FCC; EN 50121-4	
Electrical safety	UL508 pre-test	
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC61000-4-2, -3, -4, -5, -6 (Level 3)	
RoHS and WEEE	RoHS (Pb free) and WEEE compliant	
100Base FX		
Multi Mode	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm
	AVC-SFP-FX-S (2km)	Wavelength: 1310 nm
Single Mode	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm
1000Base FX		
Multi Mode	AVC-SFP-SX (550m)	Wavelength: 850 nm
	AVC-SFP-LX-S (2km)	Wavelength: 1310 nm
Single Mode	AVC-SFP-LX-10 (10km)	Wavelength: 1310 nm

Function interface



Installation dimensions

