



PRODUCT DATASHEET

8008TX

8-Port Gigabit L2 Managed Industrial Ethernet Switch (8xRJ45)





Product Information

Parameter	Specification
Vendor	AVCOMM Technologies
Model	8008TX
Series	8000 Series
Management Type	L2 Managed

Product Overview

The AVCOMM 8008TX is a 8-port Gigabit L2 managed industrial Ethernet switch featuring 8 × 10/100/1000Base-T, purpose-built for industrial applications. The device supports comprehensive Layer 2 management features including IGMP Snooping, IEEE 802.1Q VLAN, QoS, port mirroring, and IEC62439-based ERPSv2 Plus ring redundancy protocol. It also supports IEEE 1588 PTPv2 and gPTP (TSN) precision time synchronization. Die-cast aluminum enclosure with fanless design, -40°C to +75°C wide-temperature operation for harsh industrial environments.

Technical Specifications

Port Configuration

Parameter	Specification
Total Ports	8
RJ45 Ports	8 × 10/100/1000Base-T
SFP Ports	-
Console Port	1 × RJ45 CLI Management

Hardware Performance

Parameter	Specification
Switching Capacity	52 Gbps
Forwarding Rate	148,800 pps per 100M port; 1,488,000 pps per GE port
MAC Address Table	8K
Packet Buffer	4 Mbits (0.5 MB)
VLAN Count	4K (4096)
Jumbo Frame	Supported
Switching Architecture	Parallel Store and Forward

Power Specifications

Parameter	Specification
Input Voltage	12VDC-48VDC, Dual input
Connector	1 × Removable 5-PIN Terminal
Power Consumption	≤5W
Power Redundancy	Supported (Dual input)
Overload Protection	Supported
Reverse Polarity Protection	Supported

Environmental Specifications

Parameter	Specification
Operating Temperature	-40°C to 75°C
Storage Temperature	-40°C to 85°C
Humidity	5%-95% (non-condensing)

Physical Specifications

Parameter	Specification
Dimensions (W×H×D)	60 × 155 × 110 mm (W × H × D)
Weight	≤0.7 kg
IP Rating	IP41
Installation	DIN-Rail
Enclosure	Die-cast Aluminum Alloy
Cooling	Fanless passive cooling
MTBF	≥500,000 hours (~51.7 years)



Software Features

VLAN Features

Parameter	Specification
IEEE 802.1Q VLAN	Supported
Port-based VLAN	Supported
GVRP	Supported
VLAN Count	4K (4096)

Redundancy Features

Parameter	Specification
STP	IEEE 802.1D
RSTP	IEEE 802.1w
MSTP	IEEE 802.1s
Ring Protocol	ERPSv2 Plus (IEC62439-based)
Link Aggregation	IEEE 802.3ad LACP + Static Trunk

Multicast

Parameter	Specification
IGMP Snooping	Supported
GMRP	Supported
IPv4/IPv6 Multicast	Supported

QoS

Parameter	Specification
IEEE 802.1p	Supported
TOS/DiffServ	Supported (RFC 2474/2475/2597/2598)
Priority Queues per Port	8

Time Synchronization

Parameter	Specification
NTP	Supported (NTPv1/v2, RFC 1059/1119)
IEEE 1588 PTP	Supported (PTPv2 Precision Time Protocol)
TSN	Supported (IEEE 1588 PTP)

Other Features

Parameter	Specification
Storm Control	Supported
Port Mirroring	Supported
Flow Control	IEEE 802.3x
Jumbo Frame	Supported

Security Features

Parameter	Specification
IEEE 802.1X	Supported
RADIUS	Supported (RFC 2138/2139/2865)
SSH	SSH2
SNMPv3	Supported
CHAP	RFC 1994
ESP 3DES	RFC 1851

Management Features



Parameter	Specification
Web Management	Supported
CLI	Supported (Serial)
Telnet	Supported (RFC 854)
SNMP	SNMPv1/v2c/v3
HTTP	RFC 2068
DHCP Server	Supported
DHCP Relay	Supported (RFC 1542, RFC 3046)
MIB	MIB-II, SMIv2, MAU MIB, Ping MIB
Diagnostics	LEDs, Log files, Port mirroring, TRAP

Certifications & Standards

Product Safety

CE, CB, IEC, IECEE, IEC/EN62368-1, FCC Part 15 Subpart B Class A, RoHS Compliance

EMI

FCC 47 CFR Part 15 Class A, EN55032 Class A, EN55035 Class A

EMS

Test Item	Standard	Level
ESD	IEC(EN)61000-4-2	Level 4
EFT	IEC(EN)61000-4-4	Level 3
Surge	IEC(EN)61000-4-5	Level 4
Voltage Dips/Interruptions	IEC(EN)61000-4-11	Level 4
Oscillatory Waves	IEC(EN)61000-4-12	Level 3

Mechanical Tests

Test Item	Standard
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-31
PCB	IPC Compliant

Industry Certifications

Industry	Standard	Status
Hazardous Location	UL/cUL1604 Class 1 Div 2	Pending
Transportation	JT/T817-2011; NEMA-TS2	Pending
Railway	EN50121-4	Certified
Power Utility	IEC61850-3, IEEE1613 (C37.90.x)	Certified
Industrial Control	UL/cUL61010	Certified
Marine	GL	Pending

Ordering Information

Model	Description
8008TX	L2 Managed Industrial Switch, 8 x 10/100/1000Base-T , IP41, -40~+75°C, 12VDC-48VDC dual input



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