

Industrial Managed PoE Switch

JetNet 5208GP/JetNet 5208GP-2F Series



Korenix JetNet 5208GP Series, the DIN-Rail type industrial Gigabit Managed PoE Switch. JetNet 5208GP is the first industrial ethernet switch compliance with IEEE 802.3af/at/bt, each ethernet port can max supports 90W for PD, and total budget up to 180W *Note.

JetNet 5208GP series is designed for operating reliably under harsh environments, it supports one alarm relay to indicate fault conditions, as a result users can quickly handle the emergency and shorten the failover time. With IEC 61000-6-2 / 61000-6-4 Heavy Industrial EMC and Trackside certification design, including robust enclosure and -40-75°C wide operating temperature range, JetNet 5208GP series ensures high performance under traffic control systems and other Network applications.







Industrial



Wide Temp





-4 P

Overview

- 8 10/100/1000 Base TX ports (JetNet5208GP) or
 6 10/100/1000 Base TX ports + 2 Gigabit SFP (JetNet5208GP-2F Series)
- Compliance with IEEE 802.3af/at/bt, each port max 90W High Power PoE *Note
- Total PoE Budget 180W *Note, Flexible PoE ports setting
- Network Redundancy MSR (Multiple Super Ring), RSTP, MSTP
- ▶ Fully Device Management SNMP v1/v2c/v3, RMON, Web UI, Telnet and Local Console
- Layer 2 Network Performance IEEE802.1Q VLAN, Trunk, DHCP Server/Client, Traffic Prioritize, Rate Control
- Advanced Security system by Port Security, Access IP list, TACACS+
- Event Notification through SNMP trap and SysLog
- ▶ IEEE 802.1AB LLDP for auto-topology and group management
- Cisco-Like CLI, Web, SNMP/RMON for network management
- Multiple event relay output for enhanced device alarm control
- Hi-Pot Isolation Protection for ports and power
- Railway Track Side EN50121-4 Certification
- Dual 48VDC Power input
- ▶ -40~75°C Wide Operating Temperature
- Support IEEE 802.3az

Specification

Technology				
IEEE Standards	IEEE 802.3 10 Base-T Ethernet IEEE 802.3u 100 Base-TX Fast Ethernet IEEE 802.3u 100 Base-FX Fast Ethernet Fiber IEEE 802.3ab 1000 Base-T IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control and Back-pressure IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1p Class of Service (CoS) IEEE 802.1Q VLAN and GVRP IEEE 802.1 QinQ IEEE 802.1 QinQ IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP) IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3x Port Based Network Access Protocol IEEE 802.3af/at/bt Power over Ethernet			
Performance				
Switch Technology	Store and Forward Technology with 16 Gbps Switch Fabric			
System Throughput	29.7Mega packet per second			
CPU performance	MIPS-4KEc CPU running at 500 MHz			
System Memory	32M Bytes SPI Flash, 256M Bytes DDR3 SDRAM			
Transfer packet size	64 bytes to 9K bytes Jumbo Frame (include double Tag VLAN)			
MAC Address	8K			
Packet Buffer	4.1Mbit			
Forwarding performance	14,880 pps for Ethernet and 148,800 pps for Fast Ethernet, 1488,100 pps for Gigabit Ethernet			
Interface				
Enclosure Port	 10/100/1000 Mbps Ethernet port: 8 x RJ-45 (JetNet5208GP) 6 x RJ-45 (JetNet5208GP-2F Series) 100Mbps / 1000Mbps Fiber port: 2 x SFP Socket (JetNet5208G-2F Series) SFP fiber transceiver with Hot-swappable and D.D.M. functions RS-232 Console port: 1 x RJ-45 for system configuration Digital Input / Relay Output port: 4-Pin removable terminal block connector Power input port: 4-Pin removable terminal block connector 			
Ethernet Cable	100 Base-TX: 2-pair UTP/STP Cat. 6 cable, EIA/TIA-568B 100-ohm (100m) 1000 Base-TX: 4-pair UTP/STP Cat. 6 cable, EIA/TIA-568B 100-ohm (100m)			
Digital Input	Digital Input (Hi): DC 11V~30V Digital Input (Low): DC 0V~10V Supports sink type signal input with photo-coupler isolation			
Relay Output	Dry Relay output: 1A / DC 24V Supports Multiple Events Binding trigger function.			
Diagnostic Indicators	 RJ-45 port: Link / Activity (Green on, Green Blinking), 1000Mbps (Yellow) SFP port: Link/Activity (Green on, Green Blinking) Power: System Power ready (Green on) Sys: System Ready (Green on), System Updating (Green Blinking) DO (Alarm): Alarm Relay Active (Red On) R.S.: Green on (Ring normal)/Blinking (wrong ring port connective), Amber on (Ring abnormal) / Blinking (device's ring port failed) PoE: Green On (PD Detect/On), Off (None-Detect/Off) 			

Power over Ethernet				
Standard	IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt			
PoE operating mode	Auto Mode: IEEE 802.3af/at/bt *Note Forced Mode: User configured Power consumption budget control with IEEE 802.3 PoE /PD detection, or forced without PD detection			
PoE forwarding conductor	IEEE 802.3 af/at: RJ-45: V+(3,6), V- (1,2) IEEE 802.3 bt: RJ-45: V+(3,4,5,6), V- (1,2,7,8)			
Power forwarding capability	6 PoE Port: 15W/IEEE802.3af, 30W/IEEE 802.3at (#1-6)(JetNet5208GP,JetNet5208GP-2 4 PoE Port: 90W/IEEE 802.3bt (#1-4))(JetNet5208GP-U,JetNet5208GP-2F-U)			
PoE System Power Budget	Port-based system power budget PoE System Power Budget: 180Watts. *Note			
Management				
Configuration, monitoring interface	•SNMP V1/V2c/V3 with SNMP Trap (4 Trap Stations), RMON Group 1 •Local RJ-45/RS-232 connector with Cisco like command			
System Manage Secure	•Telnet/Local Console support command like interface with Cisco like commands. •Management Device Login Switch System by Remote RADIUS /TACACS+ account/password, key for RADIUS Server authentication			
Management Utility	Management utility with IEEE 802.1AB Link Layer Protocol for Device finding and Link Topology Discovery			
Network Time Protocol	NTP protocol with daylight saving and localize time sync function			
System log	Local or remote log server with authentication			
Alarm	1 set of alarm with current carrying capability of 1A@24V			
Network Redundancy				
Ring Redundancy	Multiple Super Ring Technology, Includes Rapid Super Ring, Rapid Dual Homing, SuperChain			
Rapid Dual Homing	Multiple uplink paths to one or multiple upper Switch.			
SuperChain	New ring technology with flexible and scalability, compatibility, and easy configurable. The ring includes 2 types of node Switch - Border Switch and Member Switch			
Rapid Spanning Tree	IEEE 802.1D-2004 Rapid Spanning Tree Protocol. Compatible with Legacy Spanning Tree and IEEE 802.1w			
Multiple Spanning Tree	IEEE 802.1s Multiple Spanning Tree, each MSTP instance can include one or more VLANs, and also supports multiple RSTP deployed in a VLAN or multiple VLANs			
Network Performance				
Port Configuration	Port Link Speed, Link Mode, Link Status and Port Enable/Disable			
Port Trunk	IEEE 802.3ad port aggregation and static port trunk			
VLAN	IEEE 802.1Q tag VLAN with 4K VLAN/GVRP entries VLAN ID Range: 1-4094			
Class of Service	IEEE 802.1p class of service, 8 priority queues/port			
Traffic Prioritize	Supports 8 physical queues with weighted fair queuing (WRR) or Strict Priority Schemer, which follows IEEE 802.1p CoS tag and IPv4 Type of Service/Differ information to prioritize the traffic of your industrial network			
IGMP Snooping	IGMP Snooping v1/v2 for multicast filtering and IGMP Query mode, also support unknown multicast forwarding policies- Drop, Flooding and Forward to route port Max 256 groups			
Rate Control	Egress rate limit			
Port Mirroring	One-to-one traffic mirror monitoring			
DHCP	DHCP Client/Server with IP & MAC address binding			
Advanced Cyber Security	IEEE 802.1x, DHCP Snooping, Access Control List (ACL), TACACS+			

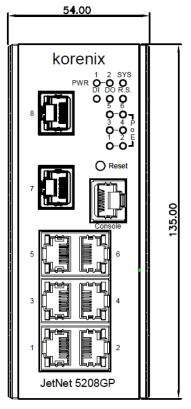
Mechanical			
Installation	DIN-Rail mounting		
Case	Steel metal with Aluminum heat-dissipate panel housing		
Ingress Protection	IP30		
Dimension (mm)	50 (W) x 120(D) x 135 (H) - w/o DIN Rail Clip		
Weight	0.9Kg		
Power Requirement			
System power	2x DC power input with polarity reverse protection		
Input Range	DC 48V & 50V (48-57V)		
PoE Power Budget	PoE af/at 180W@48V; bt 180W@50V *Note		
Power Consumption	Without PoE JetNet5208GP:7.64W@50VDC;JetNet5208GP-2F:11.25W@50VDC JetNet5208GP-U:7.64W@50VDC;JetNet5208GP-2F-U:11.25W@50VDC		
Environmental			
Operating Temperature	-40 ~75°C		
Operating Humidity	0% ~ 95%, non-condensing		
Storage Temperature	-40 ~ 85°C, 0% ~90% Humidity		
Hi-Pot	AC 1.5KV for Ethernet port and power		
Regulatory Approvals			
EMC	IEC/EN61000-6-2, IEC/EN61000-6-4 Heavy Industrial EMC EMI: FCC Class A, CE/ Class A EMS:IEC/EN61000-4-2, IEC/EN61000-4-3, IEC/EN61000-4-4, IEC/EN61000-4-5, IEC/EN61000-4-6, IEC/EN61000-4-8		
Railway Application	EN50121-4		
Power Station	IEEE1613, IEC 61850-3 Compliance		
Shock	Compliance with IEC 60068-2-27		
Vibration	Compliance with IEC 60068-2-6		
Free Fall	Compliance with IEC 60068-2-32		
MTBF	730,941 hrs		
Warranty	5 years		

*Note:

- Please note that only the model with "U" supporting IEEE 802.3bt.
 The model without "U" supporting PoE function in #1-6 ports (af/at), with 180W power budget; The model with "U" supporting PoE function in #1-4 ports (bt), with 180W power budget

Which needs to be decided before ordering. Kindly refer below order information for more details.

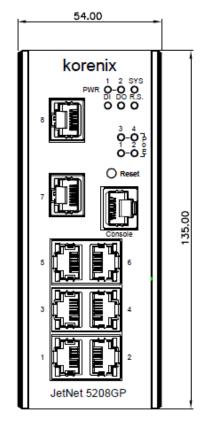
Device Front Panel



| Solution | Solution

JetNet 5208GP

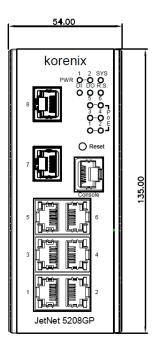
JetNet 5208GP-2F

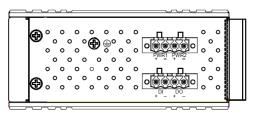


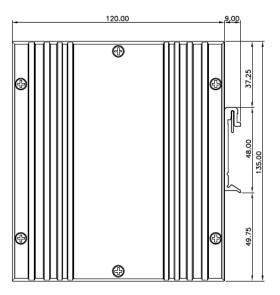
JetNet 5208GP-U

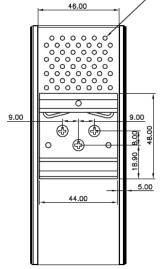
JetNet 5208GP-2F-U

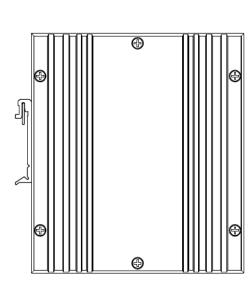
Dimension

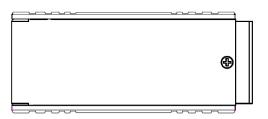












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Model Name	10/100/1000 Ethernet	100/1000 Fiber	PoE Port	РоЕ	Power Budget	Power Input
JetNet 5208GP	8	-	# 1-6	af/at	180W	46-57V
JetNet 5208GP-2F	6	2 (SFP)	# 1-6	af/at	180W	46-57V
JetNet 5208GP-U	8	-	# 1-4	af/at/bt	180W	50-57V
JetNet 5208GP-2F-U	6	2 (SFP)	# 1-4	af/at/bt	180W	50-57V

Ordering Information

Model Name	Description		
JetNet 5208GP	Industrial 8G RJ45 Managed PoE Switch with 180W Power Budget, -40~75°C		
JetNet 5208GP-2F	Industrial 6G RJ45 + 2G SFP Managed PoE Switch with 180W Power Budget, -40~75°C		
JetNet 5208GP-U	Industrial 8G RJ45 Managed PoE Switch with 180W Power Budget, IEEE802.3af/at/bt, -40~75°C		
JetNet 5208GP-2F-U	Industrial 6G RJ45 + 2G SFP Managed PoE Switch with 180W Power Budget, IEEE802.3af/at/bt, -40~75°C		
Package	Includes: • JetNet 5208GP Series • DIN-Rail kit • Quick Installation Guide Note: Please download User Manual from Korenix website		