

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 when any link or power failure happens, 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



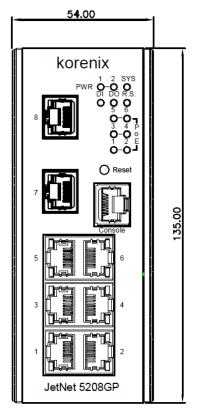




Overview

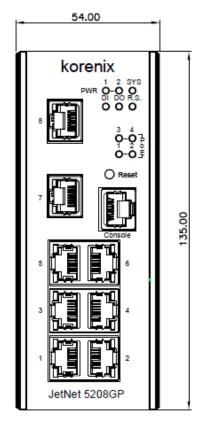
- 8 10/100/1000 Base TX ports (JetNet5208GP) or
 6 10/100/1000 Base TX ports + 2 Gigabit SFP (JetNet5208GP-2F Series)
- Compliance with IEEE 802.3af/at/bt, each port max 90W High Power PoE *Note
- Total PoE Budget 180W *Note, Flexible PoE ports setting
- ▶ Network Redundancy MSR (Multiple Super Ring), ITU-T G.8032 ERPS V1/V2, RSTP, MSTP
- ► Fully Device Management SNMP v1/v2c/v3, RMON, Web UI, Telnet and Local Console
- Friendly Device and Network Topology recovery utility Korenix View, Korenix NMS
- Layer 2 Network Performance IEEE802.1Q VLAN, Private VLAN, Trunk, Packet Filtering, DHCP Server/Client,
 Traffic Prioritize, Rate Control
- Advanced Security system by Port Security, Access IP list, SSH, HTTPS Login, TACACS+
- Event Notification through E-mail, SNMP trap and SysLog
- IEEE 802.1AB LLDP and optional Korenix NMS software 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

Device Front Panel



JetNet 5208GP

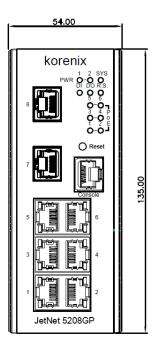
JetNet 5208GP-2F

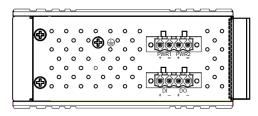


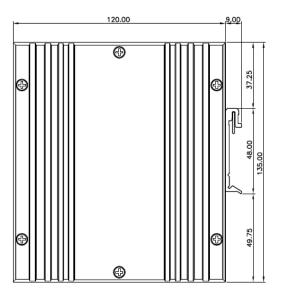
JetNet 5208GP-U

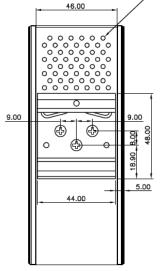
JetNet 5208GP-2F-U

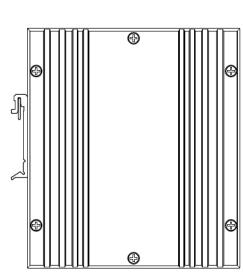
Dimension

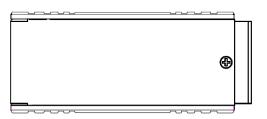












Specification

| 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 D-2004 Rapid Spanning Tree Protocol (RSTP) IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.1x 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 flash ROM, 256M Bytes DDR3 SDRAM | | | |
| Transfer packet size | 64 bytes to 10K bytes Jumbo Frame | | | |
| MAC Address | 8K MAC address table | | | |
| Packet Buffer | 4.1Mbit SRAM packet memory | | | |
| 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 control with first plug-in high priority mechanism PoE System Power Budget: 180Watts. *Note | | | |
| Management | | | | |
| Telnet & Local Console | Supports command line interface with Cisco-like commands and maximum 4 sessions; the telnet interface also supports SSH $$ | | | |
| SNMP | Support IPv4/IPv6, v1, v2c, v3 with SNMP trap function, trap station up to 4 and can be manually configured the trap server IP address. | | | |
| SNMP MIB | MIBII, Bridge MIB, Ethernet-like MIB, VLAN MIB, IGMP MIB, Korenix Private MIB | | | |
| Korenix Utility | Supports Korenix View and Korenix NMS with IEEE 802.1AB Link Layer Discovery Protocol for device and link auto-topology discovery | | | |
| Network Time Protocol | Supports NTP protocol with daylight saving function and localized time sync function. | | | |
| Management IP Security | IP address security to prevent unauthorized access | | | |
| 1588 PTP | IEEE 1588 Precision Time Protocol v1/v2 with Time Transparent | | | |
| E-mail Warning | 4 receipt E-mail accounts with mail server authentication | | | |
| System Log | Supports both Local or remote Server with authentication | | | |
| IEEE 802.1x | Port based network access control, RADIUS, MAB, TACACS+ | | | |
| Network Redundancy | | | | |
| Multiple Super Ring (MSR TM) | New generation Korenix Ring Redundancy Technology, Includes Rapid Super Ring, Rapid Dual Homing, TrunkRing TM , MultiRing TM , SuperChain TM and backward compatible with legacy Super Ring TM . | | | |
| Rapid Dual Homing (RDH TM) | Multiple uplink paths to one or multiple upper switch | | | |
| TrunkRing TM | Integrates port aggregation function in ring path to get higher throughput ring architecture | | | |
| MultiRing TM | Couple or multiple rings; Up to 4 Gigabit rings in single switch | | | |
| SuperChain TM | It is new ring technology with flexible and scalability, compatibility, and easy configurable. The ring includes 2 types of node Switch - Border Switch and Member Switch | | | |
| ITU-T G.8032 ERPS | Support ITU-T G.8032 ERPS V1 single ring topology, and ERPS V2 multiple rings with ladder topology $$ | | | |
| Rapid Spanning Tree | IEEE802.1D-2004 Rapid Spanning Tree Protocol. Compatible with Legacy Spanning Tree and IEEE 802.1w multiple spanning tree | | | |
| Loop Protection | The Loop Protection prevents any network looping caused by RSTP and MSR ring topolo change | | | |
| Network Performance | | | | |
| Port Configuration | Port link Speed, Link mode, current status and enable/disable | | | |
| Port Trunk | IEEE 802.3ad port aggregation and static port trunk; trunk member up to 8 ports and maximum 4 trunk groups $$ | | | |
| VLAN | IEEE 802.1Q Tag VLAN with 256 VLAN Entries and provides 2K GVRP entries 3 VLAN link modes- Trunk, Hybrid and Link access | | | |
| | | | | |

| IEEE802.1 QinQ | Supports Double VLAN Tag function for implementing Metro Network topologies | | | |
|-----------------------|--|--|--|--|
| Class of Service | IEEE 802.1p class of service; per port 4 priority queues. | | | |
| Traffic Prioritize | Supports 4 physical queues, weighted fair queuing (W.R.R.) and Strict Priority scheme, which follows 802.1p CoS tag and IPv4 ToS/ DiffServ information to prioritize the traffic your industrial network | | | |
| IGMP Snooping | IGMP Snooping v1/v2c /v3 for multicast filtering and IGMP Query mode; also support unknown multicasting process forwarding policies- drop, flooding and forward to router port | | | |
| Rate Control | Ingress/Egress filtering for Broadcast, Multicast, Unknown DA or All packets | | | |
| Port Mirroring | Online traffic monitoring on multiple selected ports | | | |
| Port Security | Port security to assign authorized MAC to specific port | | | |
| DHCP | DHCP Client, DHCP Server with IP & MAC Address binding, DHCP relay and port based DHCP server | | | |
| Mechanical | | | | |
| Installation | DIN-Rail mounting | | | |
| Case | Steel metal with Aluminum heat-dissipate panel housing | | | |
| Ingress Protection | IP41 | | | |
| 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) | | | |
| Power system type | Passive power system | | | |
| Power Consumption | PoE af/at 180W@48V; bt 180W@50V 'Note | | | |
| 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 | | | |
| | • | | | |

*Note:

- 1. Please note that only the model with "U" supporting IEEE 802.3bt.
- 2. 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.

Selectin Tool

| 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/ <mark>bt</mark> | 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 | | |