

Industrial 8G RJ45 + 2G Combo + 2G SFP Managed PoE Switch

JetNet 5212GP-2C2F



Korenix JetNet 5212GP, the DIN-Rail type industrial Gigabit Managed PoE Switch is designed with eight 10/100/1000TX ports, two Gigabit RJ-45 / SFP combo ports and two Gigabit SFP port. JetNet 5212GP 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 480W *Note.

JetNet 5212GP 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 5212GP ensures high performance under traffic control systems and other Network applications.







Wide Temp

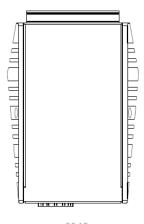


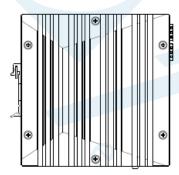
FN50121-4

Overview

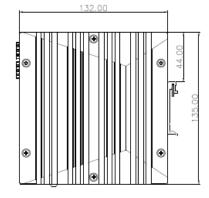
- 8 10/100/1000 Base TX ports + 2 Gigabit RJ-45/ SFP combo + 2 Gigabit SFP
- SFP ports support Digital Diagnostic Monitoring (DDM)
- ► Compliance with IEEE 802.3af/at/bt, each port max 90W High Power PoE *Note
- Total PoE Budget 480W *Note, Flexible PoE ports setting
- Network Redundancy MSR (Multiple 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

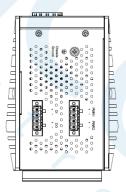
Dimension











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 802.1D-2004 Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

IEEE 802.3ad Link Aggregation Control Protocol (LACP)

IEEE 802.1x Port Based Network Access Protocol

IEEE 802.3af/at/bt Power over Ethernet

Specification

Performance	
Switch Technology	Store and Forward Technology with 24 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 Gigabit Ethernet port: 2 x RJ-45 with auto MDI/MDI-X function 100Mbps / 1000Mbps Fiber port: 4 x SFP Socket for SFP fiber transceiver with Hotswappable 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.5e/Cat.6 cable, EIA/TIA-568B 100-ohm (100m) 1000 Base-T: 4-pair UTP/STP Cat.5e/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	 1000Mbps 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 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	8 Port PoE (#1-8) PoE Port: 15W/IEEE802.3af, 30W/IEEE 802.3at, 60W-90W/IEEE 802.3bt*Note
PoE System Power Budget	Port-based system power budget control with first plug-in high priority mechanism PoE System Power Budget: 480Watts.**

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		
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 architectu		
MultiRing TM	Couple or multiple rings; Up to 6 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 ladde 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 topology 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 6 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		
Private VLAN	Direct client ports in isolated/community VLAN to promiscuous port in primary VLAN		
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 cyour industrial network		
IGMP Snooping	IGMP Snooping $v1/v2/v3$ 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	IP31			
Dimension (mm)	74 (W) x 132(D) x 135 (H) - w/o DIN Rail Clip			
Weight	1.2Kg			
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 240W@48V; 480W@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			
Shock	Compliance with IEC 60068-2-27			
Vibration	Compliance with IEC 60068-2-6			
Free Fall	Compliance with IEC 60068-2-32			
Warranty	5 years			
arranty	5 years			

*Note:

Please choose the model with "U" for supporting IEEE 802.3bt and 480W power budget. Kindly refer below order information for more details.

Ordering Information

Model Name	Description	
JetNet 5212GP-2C2F	Industrial 8G RJ45 + 2G Combo + 2G SFP Managed PoE Switch -40~75°C	with 240W Power Budget,
JetNet 5212GP-2C2F-U	Industrial 8G RJ45 + 2G Combo + 2G SFP Managed PoE Switch IEEE802.3af/at/bt, -40~75°C	with 480W Power Budget,
	Includes: • JetNet 5212GP-2C2F Series • DIN-Rail kit • Quick Installation Guide Note: Please download User Manual from Korenix website	S

