

Industrial Full Gigabit Ethernet L2 Switch

JetNet 5620G-4C



The JetNet 5620G-4C is a Plug and Play Layer 2 Full Gigabit Switch with 16 ports Gigabit Ethernet RJ-45, 4 ports Gigabit with RJ-45 or SFP combo design.

The four Gigabit Ethernet combo ports provide high speed uplink to connect with higher level backbone switches with Korenix MSRTM network redundancy technology, while ensuring the reliability of data transfer through the exclusive recovery time in several milliseconds and seamless restoration.

The JetNet 5620G-4C is designed with multi-purpose concept, it features particular power system design to endure the harsh operating environment, such as -40-75°C operating temperature, 10-60V wide power source, and serious electromagnetic interfere, to satisfy the request of railway communication, road traffic control or power substation for smart grid applications.













Features

- ▶ 16 ports GbE RJ-45, 4 ports GbE RJ-45/SFP Combo
- ▶ 40Gbps Non-Blocking, High Speed Network Switching Fabric
- Network Redundancy MSR (Multiple Super Ring), ITU-T G.8032 ERPS, RSTP, MSTP, Super Chain, ERPS V2
- ► 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
- Advanced Network Security -MAC security, IEEE 802.1x Port Based access control, IEEE 802.1x Radius Server authentication, 802.1x MAB, L2/3/4 ACL, IP Source Guard, Deny of ARP Inspection, TACACS+
- Layer 2 Network Performance IEEE802.1Q VLAN, Private VLAN, Trunk, Traffic Filtering, DHCP Server/Client, Traffic Prioritize, Forwarding Rate Control
- Hardware Watchdog for System Auto-Recovery
- Multiple Event Dry Relay Output
- High Level Electromagnetic interference immunity
- ► Harsh operating environment: -40~75°C
- ▶ DC 10~60V power redundancy
- Compliance with Heavy Industrial Application

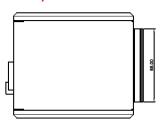
Specification

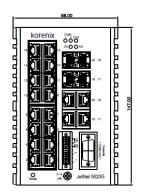
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IEEE 802.1p The Ethernet Switch MAC controller supports IEEE 802.1p Class of Service function; Pe interface with 4 queues	Private VLAN	The Private VLAN is special for group uplink access with independent port security. With the private VLAN function, each VLAN community is isolated and only exchange by high level device with primary VLAN community
interface with 4 queues	IEEE 802.1Q QinQ	Supports Double VLAN tag for VLAN isolation and security
IGMP Snooping IGMP Snooping v1/v2c /v3 for multicast filtering and IGMP Query mode; also support	IEEE 802.1p	The Ethernet Switch MAC controller supports IEEE 802.1p Class of Service function; Per interface with 4 queues
unknown multicasting process forwarding policies- drop, flooding and forward to route port	IGMP Snooping	unknown multicasting process forwarding policies- drop, flooding and forward to router
Rate Control Ingress and Egress filtering for broadcast, multicast, unknown DA or all packets	Rate Control	Ingress and Egress filtering for broadcast, multicast, unknown DA or all packets

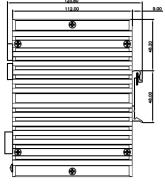
Network Redundancy	
Multiple Super Ring (MSR [™])	New generation Korenix Ring Redundancy Technology, Includes Rapid Super Ring, Rapid Dual Homing, TrunkRing [™] , MultiRing [™] , Super Chain [™] and backward compatible with legacy Super Ring [™] , Recovery time will less than 1s.
Rapid Dual Homing (RDH TM)	Multiple uplink paths to one or multiple upper Switch, up to 256 Groups RDH Peer protection
TrunkRing TM	Integrate port aggregate function in ring path to get higher throughput ring architecture
MultiRing TM	Couple or multiple up to 10 Rapid Super Rings in one device, system supports up to 10 Gigabit rings
Super Chain	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
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
ITU-T G.8032 ERPS	Support ITU-T G.8032 ERPS V1 single ring topology, and ERPS v2 multiple rings with ladder topology $$
Loop Protection	The Loop Protection prevents any network looping caused by RSTP and MSR ring topology change $$
Interface	
Enclosure port	 10/100/1000Mbps Gigabit Ethernet RJ-45 port (#1~#16): 16 x RJ-45, Auto MDI-X 100/1000Mbps Ethernet Combo port (#17~#20): 4 x RJ-45/SFP Combo, RJ-45 with Auto MDI-X, SFP supports Fiber Transceiver with Auto Negotiation Serial Console:DB-9 male connector Power Port: 2 redundant inputs within 7-Pin removable terminal block connector with lock screw Alarm Relay output: 3-pin output, supports 2 modes output - N.C. and N.O., and within the 7-pin removable terminal block connector, 0.5A/DC24V
Cables	 100Base-TX: 2 pairs STP Cat.5e/Cat.6 cable (length:100Meters) 1000Base-T: 4 pairs STP Cat. 5e/Cat.6 cable (length:100Meters) Optical Fiber: depends on SFP fiber transceiver specification Power:18-20AWG, Strand Electric power cable
Port Mirroring	On-line traffic monitoring on multiple selected ports
DHCP	System supports DHCP Client function for dynamic IP address obtain from DHCP Server, and the Switch also support DHCP Server function with DHCP Relay Agent to forward DHCP request through specified forwarding path. The DHCP Server also offer port based DHCP Server function with predefined IP address or perform MAC&IP address binding function
IEEE 802.1x/ Port Security	Port based network access control, and authenticated by localize pre-defined MAC address or remote RADIUS Server
LED Indicator	 1000Mbps RJ-45 port: Link/Acrivity (Green on, Green Blinking), Speed (Amber on: 1000Mbps Link, Amber off: 10/100Mbps Link) SFP Fiber port: Link/Activity (Green on, Green Blinking), Speed (Amber on: 1000Mbps Fiber Link, Amber off: 100Mbps Link) Power: On applying(Green on) Sys: Ready (Green on) R.S: Green on (Ring Normal)/Blinking (wrong ring port connective), Amber on (ring abnormal)/Blinking (ring port fail) Alarm (Relay Output): Relay Active (Red on), Contactor loading: 0.5A/DC24V
Power Requirements	
System Power	Typical Power input DC 24V with polarity reverse protection Power Input rating: 10-60V
Power Consumption	23 Watts (maximum)

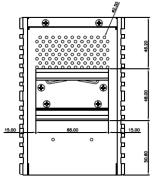
Mechanical	
Installation	EN50022 DIN Rail Mounting
Dimensions	114mm (W) x 147mm (H) x 112mm (D)
Material Housing	Steel Metal with Aluminum Heat Sink
Ingress Protection	IP-31
Environmental	
Operating temperature	-40~75°C
Operating humidity	10%-95%, non-condensing
Storage Temperature	-40~85°C
Regulatory Approvals	
Railway Application	EN 50121-4
Safety	UL IEC 62368-1
Power Substation	IEC 61850-3 & IEEE 1613
EMC	EMI: IEC/EN61000-6-2, Compliance with EN50121-1/-4, CE class A, FCC sub part-15 class-A EMS: IEC/EN61000-6-4, Compliance with EN50121-1/-4, EN61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-9
Vibration	Compliance to IEC 60068-2-6, IEC 60068-2-36
Shock	Compliance to IEC 60068-2-27
Free Fall	Compliance to IEC 60068-2-32
Warranty	5 Years

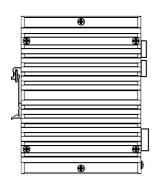
Dimension (Unit = mm)

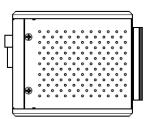












Ordering Information

JetNet 5620G-4C Industrial Gigabit Ethernet Managed Switch, 16 ports GbE RJ-45, 4 ports GbE RJ-45/SFP combo, -40-75°C operating temperature.

Include:

- JetNet 5620G-4C x1
- Quick Installation Guide x1