

Industrial 28G Full Gigabit with 4*10G SFP L3 Managed Ethernet Switch JetNet 7628X-4F



The JetNet 7628X-4F is a 19-inch L3 Full Gigabit Industrial switch and is specially designed for surveillance application that operate in extremely harsh environments. With full Gigabit capability, the JetNet 7628X-4F increases bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network.

In addition, the JetNet 7628X provides the Korenix cyber security+, the Korenix cyber redundancy+, and the isolated redundant power supplies to ensure the high secure and high availability for mission critical industrial applications.



Features

- 24* 10/100/1000Base-TX, 4* 1/10Gigabit SFP ports
- Advanced Cyber Security DHCP Snooping, IP Source Guard, Dynamic ARP Inspection, L2/L3/L4 Access Control List (ACL)
- Advanced Cyber Redundancy MSR, SuperChain, ITU-T G.8032 ERPS
- USB Firmware upgrade and configuration backup and restore
- Friendly Device and Auto Network Topology utility via NMS
- Isolated redundant power inputs with dual DC power and one 110/220 VAC power
- Embedded 300W AC power
- Compliance with EN50121-4
- -40 to 75°C operating temperature, fanless

Specification

StandardIEEE 802.31 u08ase-T Ethernet IEEE 802.32 Gigabit Ethernet Fiber IEEE 802.32 Gigabit Ethernet Fiber IEEE 802.32 Gigabit Ethernet Fiber IEEE 802.32 Fiber Control and back-pressure IEEE 802.12 A Flow Ead Standing Era YLAN (QnQ) IEEE 802.13 Multiple Spanning Tree (RSTP) IEEE 802.13 A flow based Network Access Protocol ITU-T G.8032 ERPS IEEE 802.13 A Standing Spanning Tree (RSTP) IEEE 802.13 A flow based Network Access Protocol ITU-T G.8032 ERPS IEEE 802.18 Port I/S2System MemoryStore and Forward Technology with 128Gbps Non-Blocking Switching Fabric CPU PerformanceSystem MemoryZ56Mbytes RAM, 32Mbytes Flash ROMTransfer packet Size 64 bytes to 9K (9216) bytes Jumbo Frame MAC address Table16KPacket Buffer 015Mbytes shared memoryIn.Band Management: Telnet with SSH, Web-Browser with SSL, IPV6, SNMP V1/V2c/V3 with SNMP Trap (4 Trap Stations), RMON Group 12,3,9, Modbus/TCP, Etherket/IP out-Band Management: Call I-J-47/SR-322 Connector with Cisco like command; o USB Firmware upgrade and configuration backup and restoreSystem Manage Secure System Manage Station with IP Secure function, up to 4 Manage Stations RADIUS Server authenticationMBI I, Bridge MIB, Ethernet Like MIB, VLAN MIB, IGMP MIB, Private MIB Management Utility with IEEE 802.14B Li	Technology	
Switch TechnologyStore and Forward Technology with 128Gbps Non-Blocking Switching FabricCPU Performance1Ghz ARM9 CPU with 10 Seconds Hardware Based Watchdog TimerSystem Memory256Mbytes RAM, 32Mbytes Flash ROMTransfer packet Size64 bytes to 9K (9216) bytes Jumbo FrameMAC address Table16KPacket Buffer1.5Mbytes shared memoryTransfer performance14,880pps for Ethernet, 148,800pps for Fast Ethernet, 1,488,100pps for Gigabit EthernetManagement1Configuration, monitoring interface• In-Band Management: Telnet with SSH, Web-Browser with SSL, IPv6, SNMP V1/V2c/V3 with SNMP Trap (4 Trap Stations), RMON Group 1,2,3,9, Modbus/TCP, EtherNet/IP • Out-Band Management: Local RJ-45/RS-232 connector with Cisco like command • USB Firmware upgrade and configuration backup and restoreSystem Manage Secure• Telnet/Local Console support command like interface with Cisco like commands, and offers 4 management bessions; the system supports SSL for HTTP security. SSH for Telnet security • Supports Manage Station with IP Secure function, up to 4 Manage Stations • Management Utility Wit IEEE 802.1AB Link Layer Protocol for Device finding and Link Topology DiscoveryNetwork Time ProtocolNTP protocol with daylight saving and localize time sync functionIEEE 1588 PTPIEEE 1588 Precision Time Protocol v1/v2E-mail Warning4 receipt E-mail accounts with mail server authenticationSystem logLocal or remote log server with authenticationAlarm1 set of alarm with current carrying capability of 1A@24V	Standard	IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet copper IEEE 802.3z Gigabit Ethernet 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 802.1Q Double Tag VLAN (QinQ) IEEE 802.1D Rapid Spanning Tree (RSTP) IEEE 802.1S Multiple Spanning Tree Protocol (MSTP) IEEE 802.3ad Link Aggregation Protocol (LACP) IEEE 802.1x Port based Network Access Protocol ITU-T G.8032 ERPS
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Alarm 1 set of alarm with current carrying capability of 1A@24V	E-mail Warning	4 receipt E-mail accounts with mail server authentication
	System log	Local or remote log server with authentication
Power (PWR1, PWR2, PWR3) failure, Port link failure, Ring failure, Ping failure	Alarm	1 set of alarm with current carrying capability of 1A@24V Power (PWR1, PWR2, PWR3) failure, Port link failure, Ring failure, Ping failure

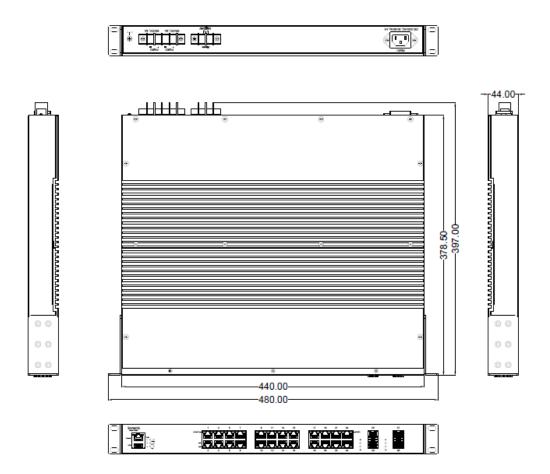
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Network Performance	
Port Configuration	Port Link Speed, Link Mode, Link Status and Port Enable/Disable
Port Trunk/ Link Aggregation	IEEE 802.3ad port aggregation and static port trunk, Trunk member up to 8 ports, maximum 8 trunk groups
VLAN	IEEE 802.1Q tag VLAN with 4K VLAN/GVRP entries 3 VLAN modes - Trunk, Hybrid and Link access
Private VLAN	Direct Client ports in isolated /community VLAN to promiscuous port in primary VLAN
IEEE 802.1 QinQ	Double Tag for Private VLAN Access
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/v3 for multicast filtering and IGMP Query mode, also support unknown multicast forwarding policies- Drop, Flooding and Forward to route port
Rate Control	Ingress/Egress filtering for Broadcast, Multicast, Unknown DA or All packets
Port Mirroring	On-line traffic monitoring on multiple selected target ports
DHCP	DHCP Client/Server with IP $\&$ MAC address binding, DHCP Relay Agent function and DHCP Server with Static port based IP assigned function
Advanced Cyber Security	Port security, IEEE 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection, L2/L3/L4 Access Control List (ACL), TACACS+
Industrial Protocol	Modbus/TCP, EtherNet/IP
Network Redundancy	
Ring Redundancy	Multiple Super Ring TM Technology, Includes Rapid Super Ring, Rapid Dual Homing, TrunkRing TM , MultiRing TM , SuperChain TM
Rapid Dual Homing	Multiple uplink paths to one or multiple upper Switch, up to 256 Groups RDH Peer protection
TrunkRing [™]	Integrate port aggregate function in ring path to get higher throughput ring architecture
MultiRing TM	Couple or multiple up to 14 Rapid Super Rings in one device, supports up to 14 Gigabit rings
SuperChain [™]	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
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Power Requirement	
AC Power input	110/220 VAC(90-264VAC)
DC Power input	2x44-57VDC
Power Consumption	Max. 25Watts (DC mode) Max. 48Watts (AC mode 110V) Max. 64Watts (AC mode 220V)
Mechanical	
Installation	19", 1U Rackmount
Enclosure Material	Aluminum/Steel Metal
Dimension	44mm(H) x 440mm (W) x 378.5mm (D)
Weight	8.2 kg with package
Ingress Protection	Robust IP40
Environmental	
Operating Temperature	-40°C~75°C
Operating Humidity	10%~95%, Non-Condensing
Storage Temperature	-40°C~85°C
Hi-Pot Insulation	AC 1.5KV for Ethernet Interface to Power, Power to Case
MTBF(hrs)	>202,000
Approvals	
Rail Traffic	EN50121-4
ЕМС	 EMI: IEC/EN61000-3-2, EN61000-3-3, EN55022 FCC Class A, CE Radiation, Conduction EMS: IEC/EN55024 IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8 IEC61000-4-11
Vibration	IEC 60068-2-6, IEC 60068-2-36
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Warranty	5 Years

Dimension (Unit = mm)



Ordering Information

JetNet 7628X-4F

L3 24 100/1000Base-TX ports, 4 10Gigabit SFP ports, Ind. Managed Ethernet Switch, -40~75°C, AC and dual DC power