

INDUSTRIAL ETHERNET RACKMOUNT SWITCH

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



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33
 info@alcom.be | www.alcom.be
 Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands
 Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl

Specification

| Technology | |
|-------------------------------------|--|
| Standard | IEEE 802.3u 10Base-T Ethernet 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 IEEE 1588 PTPv1/v2 |
| Performance | |
| Switch Technology | Store and Forward Technology with 128Gbps Non-Blocking Switching Fabric |
| CPU Performance | 1Ghz ARM9 CPU with 10 Seconds Hardware Based Watchdog Timer |
| System Memory | 256Mbytes RAM, 32Mbytes Flash ROM |
| Transfer packet Size | 64 bytes to 9K (9216) bytes Jumbo Frame |
| MAC address Table | 16K |
| Packet Buffer | 1.5Mbytes shared memory |
| Transfer performance | 14,880pps for Ethernet, 148,800pps for Fast Ethernet, 1,488,100pps for Gigabit Ethernet 14,881,000pps for 10Gigabit Ethernet |
| Management | |
| Configuration, monitoring interface | <ul style="list-style-type: none"> 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 restore |
| System Manage Secure | <ul style="list-style-type: none"> Telnet/Local Console support command like interface with Cisco like commands, and offers 4 management sessions; the system supports SSL for HTTP security, SSH for Telnet security Supports Manage Station with IP Secure function, up to 4 Manage Stations Management Device Login Switch System by Remote RADIUS account/password, key for RADIUS Server authentication |
| SNMP MIB | MIB II, Bridge MIB, Ethernet Like MIB, VLAN MIB, IGMP MIB, Private MIB |
| 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 |
| IEEE 1588 PTP | IEEE 1588 Precision Time Protocol v1/v2 |
| E-mail Warning | 4 receipt E-mail accounts with mail server authentication |
| System log | Local or remote log server with authentication |
| Alarm | 1 set of alarm with current carrying capability of 1A@24V Power (PWR1, PWR2, PWR3) failure, Port link failure, Ring failure, Ping failure |

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 Max No. of VLANs : 64 , VLAN ID Range: 1-4094 |
| 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 Max 256 groups |
| 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

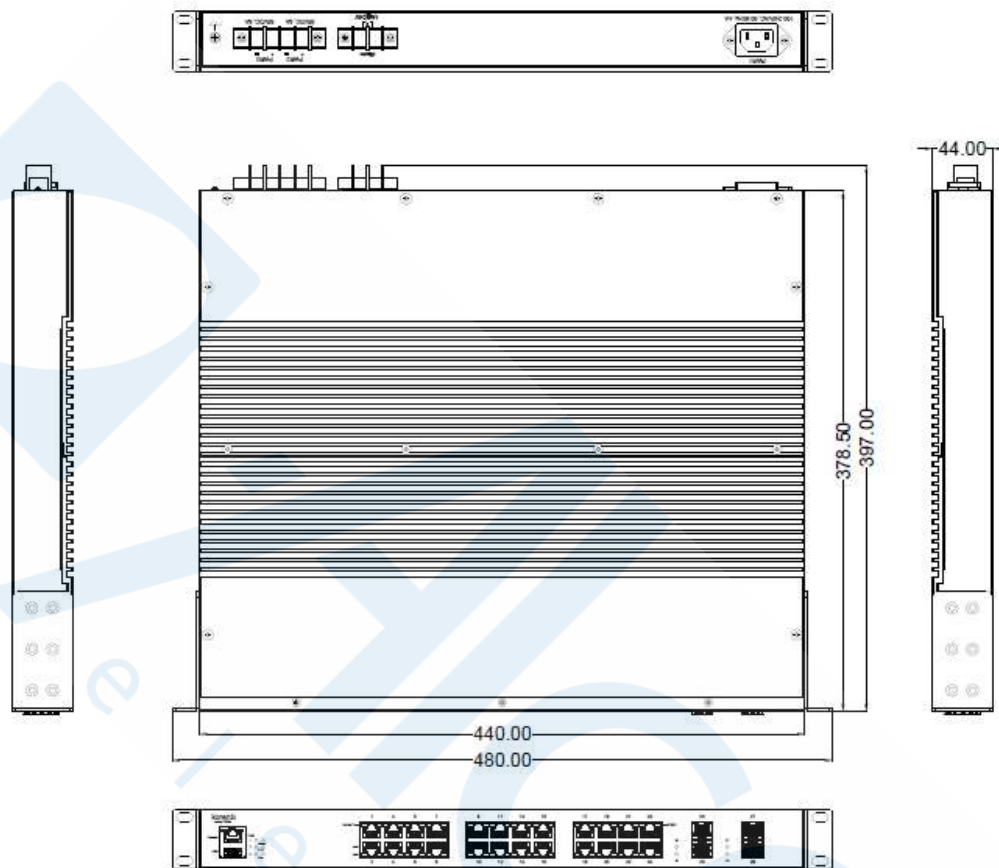
| | |
|------------------------|---|
| Ring Redundancy | Multiple Super Ring™ Technology, Includes Rapid Super Ring, Rapid Dual Homing, TrunkRing™, MultiRing™, SuperChain™ |
| Rapid Dual Homing | Multiple uplink paths to one or multiple upper Switch, up to 256 Groups RDH Peer protection |
| TrunkRing™ | Integrate port aggregate function in ring path to get higher throughput ring architecture |
| MultiRing™ | 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 |
| ITU-T G.8032 ERPS | Support ITU-T G.8032 ERPS V1 single ring topology, and ERPS v2 multiple rings with ladder topology |

L3 Protocols

| | |
|-----------------------|--|
| L3 Routing | Static Routing, Dynamic Routing: RIP V1/V2, OSPF V1/V2 (Max 64 Groups), VLAN Routing |
| L3 Gateway Redundancy | VRRP V2 (Max 32 Groups) |

| 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 |
| EMC | EMI: IEC/EN61000-3-2, EN61000-3-3, EN61000-6-4, 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, EN61000-6-2 |
| 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 10/100/1000Base-TX ports, 4 10Gigabit SFP ports, Ind. Managed Ethernet Switch, -40~75°C, AC and dual DC power



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33
info@alcom.be | www.alcom.be
Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands
Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl