

Industrial 48G+4x10G L3 Routing Server Switch**JetNet 7852G-4XG**

The JetNet 7852G-4XG is a 19-inch Gigabit Layer 3 Routing Server Switch, equipped with 48 10/100/1000 Base-TX ports including 4 x 1/10 GbE dual speed SFP+ ports delivering maximum throughput and flexibility for high-density and ultra high-speed connection. In addition to the advanced cyber security, the advanced cyber redundancy, and the advanced L3 features, JetNet 7852G-4XG model provides the hot-swappable power supplies to ensure the high availability for mission critical industrial applications.

Features

- ▶ 48 GTX, 4 1/10GbE dual speed SFP+ uplink ports
- ▶ Advanced Cyber Security - DHCP Snooping, IP Source Guard, Dynamic ARP Inspection, Denial of Service (DoS) protection, L2/L3/L4 Access Control List (ACL)
- ▶ Advanced Cyber Redundancy - MSR, MLAG (Multi-Chassis LAG)
- ▶ Advanced L3 - OSPFv3, BGP4, VRRP, 32-way ECMP
- ▶ Friendly Device and Auto Network Topology utility
- ▶ Redundant power inputs with universal 110/220 VAC power, hot-swappable
- ▶ -10 to 55C operating temperature



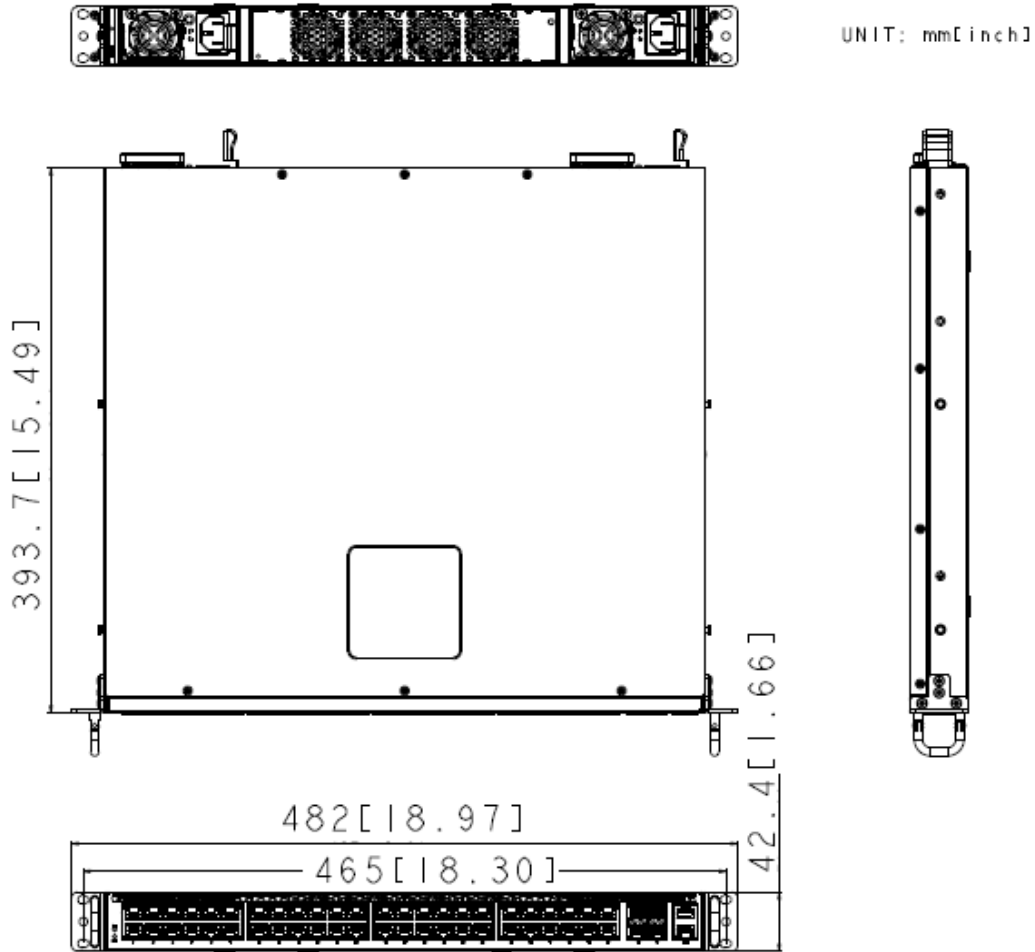
Specification

| Technology | |
|-------------------------------------|---|
| Standard | IEEE 802.3u 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3u 100Base-FX Fast Ethernet Fiber 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 |
| Performance | |
| Switch Technology | Store and Forward Technology with 176Gbps Non-Blocking Switching Fabric, Forwarding rate: 131Mpps |
| CPU Performance | 800Mhz MPC8541 CPU |
| System Memory | 1024Mbytes RAM, 64Mbytes Flash ROM |
| Transfer packet Size | 64Bytes ~12KBytes |
| MAC address Table | 32K |
| Packet Buffer | 4Mbytes shared memory |
| Management | |
| Configuration, monitoring interface | <ul style="list-style-type: none"> Telnet, SSH, CLI, Web-Browser with SSL, IPv6, SNMP V1/V2c/V3 with SNMP Trap (4 Trap Stations), RMON Group 1,2,3,9, sFlow 1 RJ-45 Out-of-Band Management: (10/100/1000M) 1 RJ-45/RS232 console port |
| 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 |
| E-mail Warning | 4 receipt E-mail accounts with mail server authentication |
| System log | Local or remote log server with authentication |
| System Auto Maintenance | Power on Auto Firmware upgrade and Configure upload |

| 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 64 trunk groups include Gigabit Ethernet port |
| VLAN | IEEE 802.1Q tag VLAN with 4K Active VLAN, GVRP/GMRP 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, Denial of Service (DoS) protection, L2/L3/L4 Access Control List (ACL), TACACS+ |
| Network Redundancy | |
| Redundancy | Korenix MSR Ring Redundancy Technology, MLAG |
| 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 |
| Loop Protection | The Loop Protection prevents any network looping |
| L3 Features | |
| Routing Performance | IPv4 Unicast Route Table: Up to 6K with IPv6 3K, IPv4 Host Table: 4K, IP Multicast Routes: 512, Supported L3 Interfaces: 128 |
| Routing/Redundancy | IPv4/IPv6 routing, RIPv1/v2, RIPng, OSPF v2/v3, ECMP, BGP4, Policy-based Routing, IS-IS, VRRP |
| Multicast Routing | IGMPv1/v2/v3, Mroute, MLDv2, DVMRP, PIM-DM6/SM6 |
| Power Requirement | |
| System Power | Input voltage: 2 x 110-240 VAC (Hot Swappable) |
| Mechanical | |
| Installation | 19", 1U Rackmount |
| Enclosure Material | Steel Metal |
| Dimension | 42.8mm(H) x 435mm (W) x 393.7mm (D) |
| Weight | 7.15 kg (NET) |
| Environmental | |
| Operating Temperature | -10°C-55°C |
| Operating Humidity | 10%-95%, Non-Condensing |
| Storage Temperature | -40°C-85°C |
| MTBF(hrs) | >180,000 |
| Approvals | |
| EMC | EMI: IEC/EN61000-3-2, EN61000-3-3, EN55022 FCC Class A, CE Radiation, Conduction |

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| | 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 | 3 Years |

Dimension (Unit = mm)



Ordering Information

JetNet 7852G-4XG-2AC
48 100/1000TX, 4 10G SFP+ ports, Ind. L3 Routing Server Switch, -10-55°C, dual AC power (hot swappable)