

Industrial 48G+4x10G SFP+ Ports Gigabit Layer 3 Routing Server

JetNet 7852G-4XG



The JetNet 7852G-4XG is a 19-inch Gigabit Layer 3 Routing Server, 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



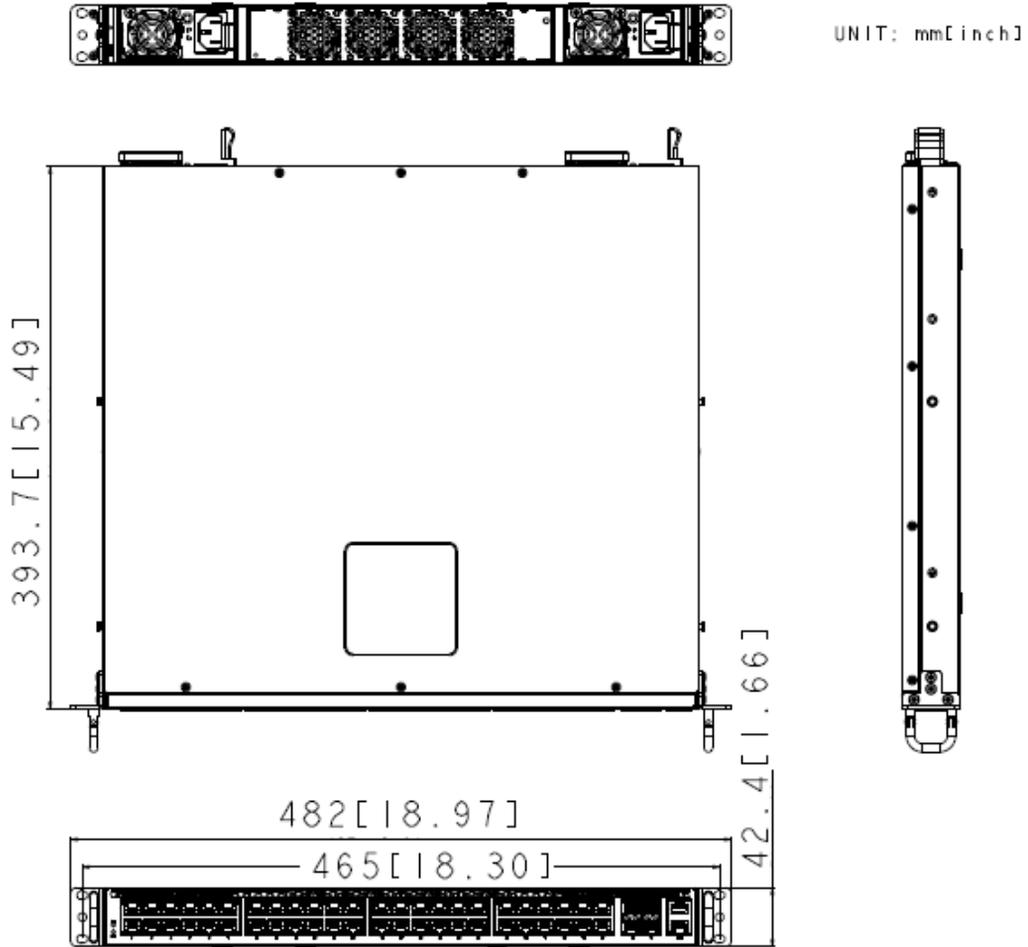
Specification

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

	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. Layer 3 Routing Server, -10~55°C, dual AC power (hot swappable)