BeiJer
E L E C T R O N I C S

JetNet 6228G

Industrial 28-port L2 Managed Ethernet Switch

Features

- Full GbE L2 rackmount switch
- USB Firmware upgrade
- Support multiple redundance protocols such as MSR，MSTP，RSTP
- Isolated redundant power inputs with VDC power or 110/220 VAC power
- Compliance with EN50121-4
- -40 to 75°C operating temperature, fanless

+75
-40
Wide Temp

EN50121-4

G
Gigabit

Dual Power

Overview

The JetNet 6228G series includes 19-inch L2 full Gigabit industrial rackmount switches designed for applications that require high-speed connectivity. With full Gigabit capability, the JetNet 6228G series increases bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network.

Moreover, the JetNet 6228G series supports harsh environments at -40°C to 75°C and is designed with an industrial EMC grade to ensure proper operation. Also, the JetNet 6228G series has various cyber security and cyber redundancy features, as well as isolated redundant power supplies.

This JetNet 6228G series is ideal for many applications, including transportation, surveillance, and automation.

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Specification

Interface	
RJ-45 Port	24 x 10/100/1000Mbps
SFP Port	4 x 100/1000Mbps
Console port	RS-232 (RJ-45 connector)
Storage	USB (Type A)
Performance	
Switch Technology	Store and Forward technology with 56Gbps Switch Fabric
CPU Performance	1.2GHzs ARM Cortex-A9 processor
System Memory	128MB NOR flash, 1GB system RAM
Transfer packet Size	Up to 9K bytes Jumbo Frame
MAC address Table	16K
Packet Buffer	512KB
Transfer performance	14,880pps for Ethernet.148,800pps for Fast Ethernet.1,488,100pps for Gigabit Ethernet
Technology	
Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z Gigabit Ethernet Fiber IEEE 802.3x Flow Control and Back Pressure IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1Q VLAN and GVRP IEEE 802.1D:2004 Rapid Spanning Tree (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.1x Port Based Network Access Control IEEE 802.1p class of service
Management	
Configuration, monitoring interface	• SNMP V1/V2c/V3 with SNMP Trap (4 Trap Stations), RMON Group 1 •Local RJ-45/RS-232 connector with Cisco like command •USB Firmware upgrade
System Manage Secure	•Telnet/Local Console support command like interface with Cisco like commands. •Management Device Login Switch System by Remote RADIUS /TACACS+ account/password, key for RADIUS Server authentication
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
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
Network Performance	

Port Configuration	Port Link Speed, Link Mode, Link Status and Port Enable/Disable
Port Trunk/ Link	IEEE 802.3ad port aggregation and static port trunk, maximum 8 trunk groups
VLAN	IEEE 802.1Q tag VLAN with 4K VLAN/GVRP entries VLAN ID Range: 1-4094
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 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	Egress rate limit
Port Mirroring	One-to-one traffic mirror monitoring
DHCP	DHCP Client/Server with IP & MAC address binding
Advanced Cyber Security	IEEE 802.1x, DHCP Snooping, Access Control List (ACL), TACACS+

Network Redundancy

Ring Redundancy	Multiple Super Ring™ Technology, Includes Rapid Super Ring, Rapid Dual Homing,SuperChain™
Rapid Dual Homing	Multiple uplink paths to one or multiple upper Switch.
SuperChain™	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

Power Requirement

AC Power Input	110/220 VAC(100-240VAC)
DC Power input	2x 18-75VDC
Power Consumption	16.32W (48VDC) , 34.56W(240VAC)

Mechanical

Installation	19", 1U Rackmount
Enclosure Material	Steel Metal

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Dimension	43.8mm(H) x 431mm (W) x 375mm (D)
Weight	7.4kg 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
Regulation	
Rail Traffic	EN50121-4
EMC	FCC Class A, CE EN 50121-4 EN 61000-6-4 EN IEC 61000-3-2 EN 61000-3-3 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-9
Vibration	IEC 60068-2-6, IEC 60068-2-36
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
MTBF	570,639 hrs
Warranty	5 Years

Dimension (Unit = mm)
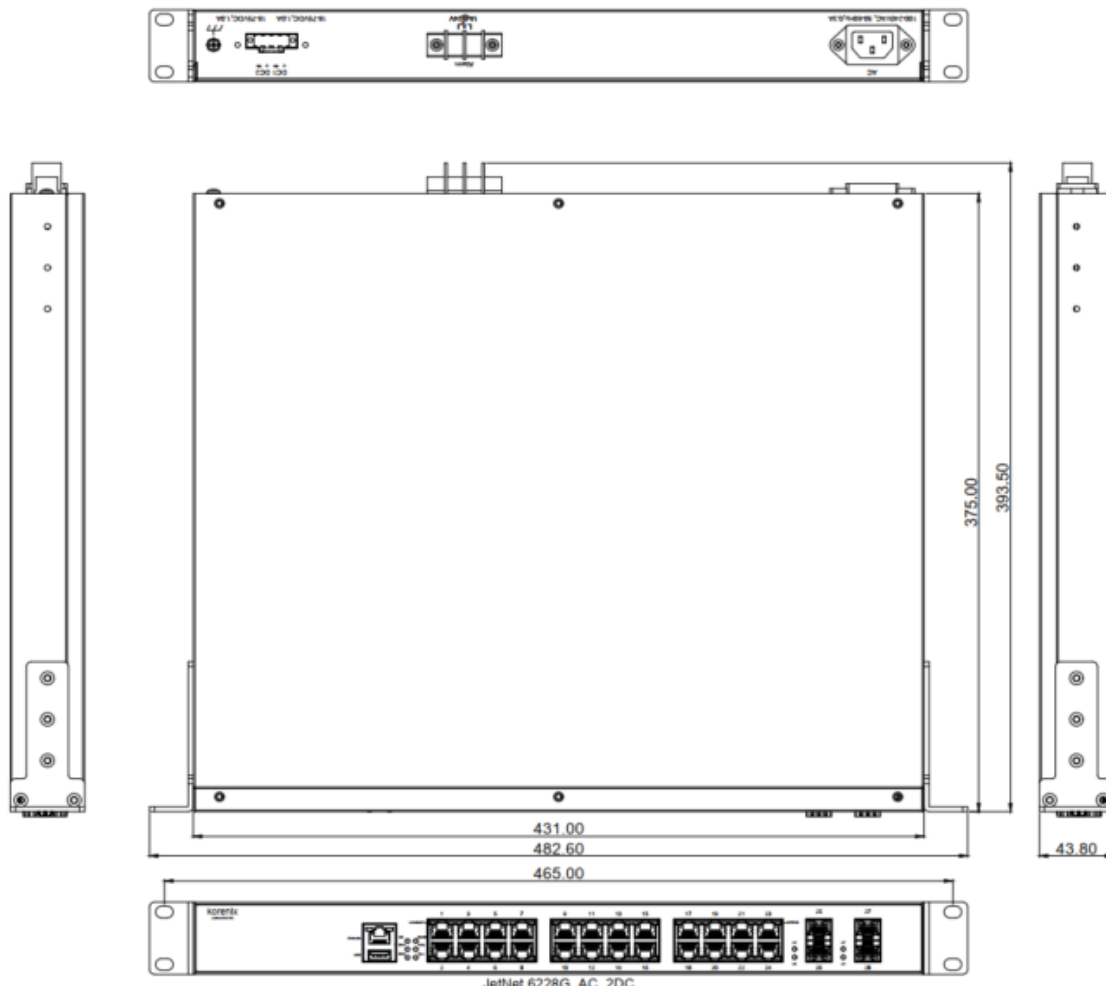
Ordering Information

Model Name	Description
JetNet 6228G-4F-AC-2DC	Industrial 28-port Full Gigabit with 4-port SFP Managed Ethernet Switch, AC and Dual DC Input
JetNet 6228G-4F-AC	Industrial 28-port Full Gigabit with 4-port SFP Managed Ethernet Switch, AC input
JetNet 6228G-4F-2DC	Industrial 28-port Full Gigabit with 4-port SFP Managed Ethernet Switch, Dual DC input
Packing	Includes: • JetNet 6228G • Rackmount kit • Quick Installation Guide Note: Please download User Manual from Korenix website