



JET/NET

**JetNet 5628G/5828G/5628G-R/5828G-R
IEC 61850-3 Modular Managed Ethernet Switch**

Quick Installation Guide

V1.1

www.korenix.com

Introduction

The JetNet 5628G/5828G is a 19-inch 1U High Industrial 24+4G Modular Managed Ethernet Switch, equipped with 3 slots for maximum 24 10/100 Base-TX Ports or 18 100Base-FX Fiber interfaces ports plus 4 Gigabit RJ45 / MINI GBIC combo ports. The JetNet 5628G/5828G, a special design for substation automation and industrial control room, is compliant with the IEC61850-3, IEEE1613 high level environmental certifications. The switch also supports Jumbo Frame forwarding of up to 9.2Kbytes. With this, the transmission of large files becomes more efficient and solid. To fulfill the advanced management, control and security requirements in power substations and control rooms, the JetNet 5628G/5828G supports various software features. The VLAN, MSR, RSTP, QoS, IGMP, ACL, 802.1x, DHCP Option 82, SNMP, LLDP, etc. complete the demand and greatly satisfy technicians' requests. The JetNet 5828G has the same hardware design as JetNet 5628G, however in addition, the JetNet 5828G supports Layer 3 switching/routing features. The JetNet 5628G-R/5828G-R is an extended product line designed with Ethernet ports on the rear panel. All the Fast Ethernet modules are accepted by the JetNet 5628G/5828G series.

Hardware Installation

1. Unpack the box, you will find

- ▶ The Rack Mount Managed Ethernet Switch (4GT Combo, no module inside)
- ▶ RS-232 DB9 (Null-Modem) console cable
- ▶ CD User Manual
- ▶ Rack Mount kit
- ▶ Power Cord (Depend on Country)

2. Interface Introduction(JetNet 5628G/5828G)

2.1 LED:

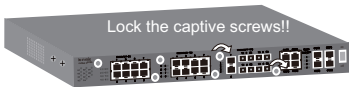
System LED	Color	Port LED	Color
PWR 1, PWR 2 (AC/ HDC)	Green On/Off	Port 1~8 (JNM5-8TX)	Green/Green Blinking
DC 1, DC 2 (LDC Power)	Green On/Off	Port 1~8 (JNM5-4TX/4SFP)	Green/Green Blinking
RDY (System Ready)	Green On/Off	Port 1~6 (JNM5-2SFP/4MSC)	Green/Green Blinking
DI 1, DI 2 (Digital Input)	Green On/Off	Port 1~6 (JNM5-2SFP/4SSC)	Green/Green Blinking
R.M. (Ring Master)	Green On/Off	Port 25~28 (Gigabit RJ45)	Green/Green Blinking
DO 1, DO 2 (Digital Output)	Red On/Off	Port 25~28 (Gigabit SFP)	Green/Green Blinking
R.F. (Ring Failure)	Red On/Off	RS (Ring Status)	(JetNet 5628G-R/5828G-R)

- 2.2 Fast Ethernet Module: There are 3 available slots for Fast Ethernet Modules.
- 2.3 On Board Fixed Ports: 4 10/100/1000Mbps combo with 4 Gigabit SFP sockets.
- 2.4 Front Switch with Cap: Easy to turn on/off the switch after mounted to rack.
- 2.5 Digital Input/Output: 8 pin terminal block for Digital Input and Output.
- 2.6 AC/DC Socket: AC plug for 85-264VAC and DC input (18-48VDC or 88-370VDC).
- 2.7 RS232 Console: DB-9 RS232 console for out band management.

3. Mounting the Fast Ethernet Module

- 3.1 Turn off the switch by the front power switch(JetNet 5628G/5828G).
- 3.2 Unlock the front plate of the slot and plug the Fast Ethernet Module into the socket.
- 3.3 Turn the captive screw to lock the module.
- 3.4 After locked the modules, turn on the switch.

Note: Each time when you plug or exchange module, be noticed that you should turn off the power first.

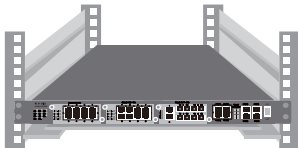


4. Port number of slots: There are 3 slots which provide maximum 24 ports. The slot 1 represents port 1 to 8; the slot 2 represents port 9-16; the slot 3 represents port 17-24. Some of the modules only support 6 ports, when plug in 6 ports module, the number of the first port of each slot still starts from port 1, 9 and 17. The 4 On board Gigabit combo ports always represent port 25-28.

Slot	Slot 1		Slot 2		Slot 3		On Board	
	Web	CLI	Web	CLI	Web	CLI	Web	CLI
JNM5-8TX	1~8	fa1~fa8	9~16	fa9~fa16	17~24	fa9~fa16	25~28	gi25~gi28
JNM5-4TX/4SFP	1~8	fa1~fa8	9~16	fa9~fa16	17~24	fa9~fa16	25~28	gi25~gi28
JNM5-2SFP/4MSC JNM5-2SFP/4SSC	1~6	fa1~fa6	9~14	fa9~fa14	17~22	fa9~fa14	25~28	gi25~gi28

5. Mount the Switch to 19" rack

- 5.1 Attach the brackets to the device by using the screws provided in the Rack Mount kit.
- 5.2 Mount the device in the 19" rack by using four rack-mounting screws provided by the rack manufacturer.
- 5.3 When installing multiple switches, mount them in the rack one below the other.



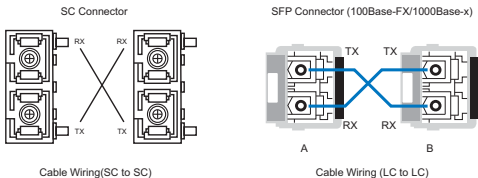
Note: Check if the rack environment temperature conforms to the specified operating temperature range. Do not place any equipment on top of the switch and please properly ground it.

6. Power the unit and connect to network Cable

- 6.1 Connect the power supply; the terminal block is for low voltage DC input, and the AC socket is for high voltage AC/DC input.
- 6.2 Connect the 10/100M Copper Port: Connect the network nodes to the switch with 2/4-pair CAT5 UTP cable. The 10/100M interfaces support auto MDI/MDIX.
- 6.3 Connect the 100Base-FX SFP transceiver: Plug in 100Base-FX SFP fiber transceiver. Connect transmit channel to receive channel at the opposite end using LC type Fiber cable.
- 6.4 Connect the 100Base-FX Single or Multi mode SC type Connector. Connect transmit channel to receive channel at the opposite end using SC type Fiber cable.
- 6.5 Connect the Gigabit Copper Port: Connect the network node to the JetNet 5628G/5828G with 4-pair CAT5 UTP cable. The on board 1000Base-T ports support 10/100/1000Mbps and auto MDI/MDIX.
- 6.6 Connect the Gigabit SFP transceiver of the on board SFP sockets: Plug in Gigabit SFP fiber transceiver. Connect transmit channel to receive channel at the opposite end using LC type Fiber cable. The 4 On board SFP sockets support 1000Base-X Single or Multi mode Fiber transceiver.

Note 1: We recommend using Korenix certified SFP mini GBIC transceiver.

Note 2: Cross-connect the transmit channel at each end to the receive channel at the opposite end as illustrated in the figure below:



Warning: The Fiber interface is Class 1 Laser/LED product. Do not stare at the Laser/LED beam.

Device Management

JetNet 5628G/5828G Rack Mount Managed Ethernet Switch provides both in-band and out-band configuration methods. You can configure the switch via the RS232 console with the attached console cable. Or you can remotely manage the switch via network. You can choose Telnet/SSH, Web/HTTPS management.

1. Preparation for console management: Attach the RS-232 DB9 connector to your PC's COM port. Connect the RJ-45 connector to the console port of the JetNet 5628G/5828G.

1.1 Go to Start -> Program -> Accessories -> Communication -> Hyper Terminal

1.2 Give a name to the new console connection.

1.3 Choose the COM name, and select the correct serial settings. The serial settings of the JetNet 5628G are as below: Baud Rate: 9600 / Parity: None / Data Bit: 8 / Stop Bit: 1

1.4 After connected, you can see Switch login request. Type the username and password then you can login. The default username is "admin", password is "admin".

1.5 Follow the manual to configure the software features.

2. Preparation for Web management: Before you attempt to use the embedded web interface to manage switch operation, verify that your JetNet 5628G/5828G is properly installed on your network and that every PC on this network can access the switch via the web browser.

2.1 Launch the web browser (Internet Explorer or Mozilla Firefox) on the PC.

2.2 Type `http://5628G/5828G_IP_Address` (The default IP address is 192.168.10.1.) then press Enter.

2.3 The login screen will appear next. Key in the user name and the password. The default user name and password is admin/admin.



2.4 Click OK, and then the Home page of the web-based management interface will appear.

2.5 At the left column of the web management interface is the software function. The right column lists the available settings. The top column indicates the front panel and shows the link status of each interface.



3. Preparation for Telnet management: Go to Start -> Program -> Accessories -> DOS Prompt, Type Telnet 192.168.10.1 (Default IP Address) then press Enter.

Korenix Customer Service

KoreCARE is Korenix Technology's global service center, where our professional staff is ready to answer your questions any time.

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