3onedata
Make network communication more reliable

ICS5556 Series
Modular Layer 3 Ethernet Switch
Quick Installation Guide

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【Package Checklist】

Please check the integrity of package and accessories while first using the switch.

1. Modular switch
2. AC power line ×2
3. Quick installation guide
4. Foot pad ×4
5. CD (manual / network management tool)
6. Mounting lug ×2
7. Debugging cable for Console port
8. Warranty card
9. Certificate

If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

This series of products are modular layer 3 Ethernet switches. The complete machine includes frame and 4 board cards, and supports 8-port full Gigabit SFP and 8-port full Gigabit RJ45 board cards. The models of the complete machine, frame and board cards are as follows.

Model I. (Complete machine) ICS5556-24GT24GS8XS-2P220 (24 Gigabit copper ports + 24 Gigabit SFP slots + 8 10Gigabit SFP+, 100~240VAC redundant power supply)

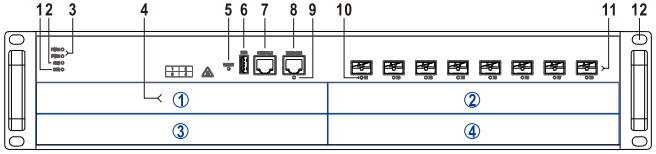
Model II. (Frame) ICS5556-MAIN-2P220 (8 10Gigabit SFP+, 100~240VAC redundant power supply)

Model III. (Board card) ICS5556-IM-12GT (12 Gigabit copper ports)

Model IV. (Board card) ICS5556-IM-12GS (12 Gigabit SFP slots)

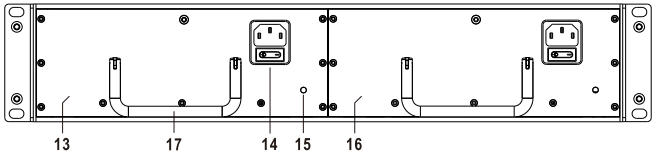
【Panel Design】

➢ **Frame-Front view**



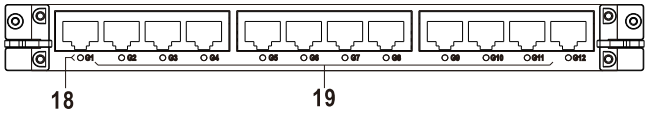
Model II

➢ **Frame-Rear view**

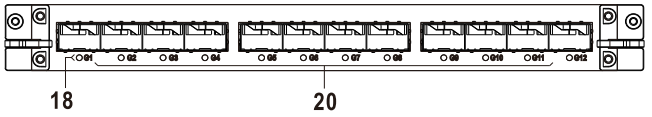


Model II

➢ **Board card-Front view**

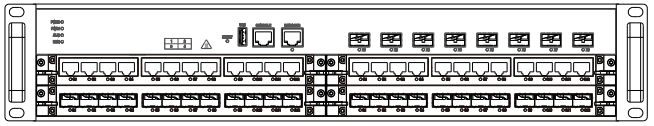


Model III



Model IV

➢ **Complete machine-Front view**



Model I

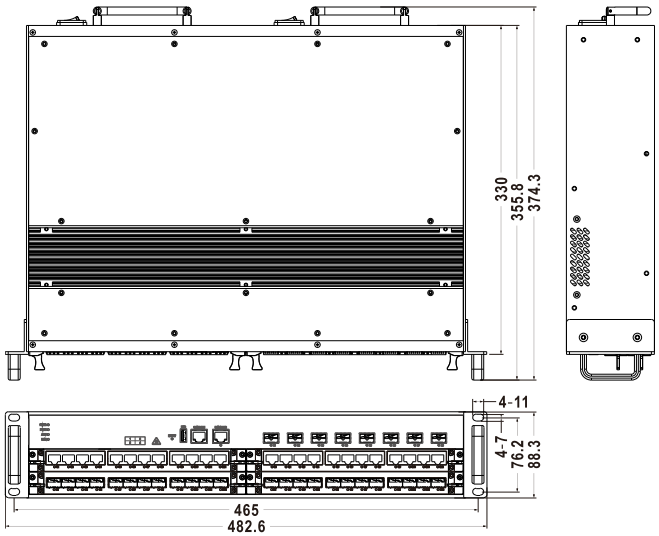
1. Running indicator (RUN)
2. Alarm indicator (ALM)
3. Power supply indicator (PWR1-PWR2)
4. Board card slot (1-4)
5. Restore default settings(RESET)
6. USB interface
7. CONSOLE port
8. MANAGER port
9. MANAGER indicator
10. 10Gigabit Ethernet port indicator (X1-X8)
11. 1000/10GBase-X SFP+ slot (X1-X8)
12. Lugs
13. Power supply module1
14. Power input socket with switch
15. Grounding screw
16. Power supply module2
17. Power supply handle
18. Gigabit Ethernet interface indicator (G1-G12)
19. 10/100/1000Base-T(X) Gigabit copper port (G1-G12)
20. 100/1000Base-X Gigabit SFP slot (G1-G12)

Notes:

No. 17 in the Frame-Rear view is the power supply handle, which is only used for plugging in power and not for moving the device.

【Mounting Dimension】

Unit: mm



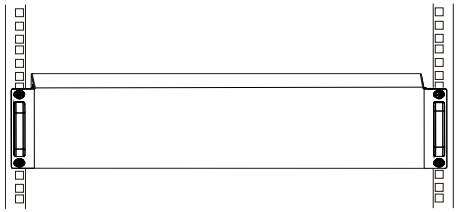
Notice Before Mounting:

- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Rack-mounted】

Step 1 Select the device mounting location to ensure enough size.

Step 2 Put the device on the plane plate of the rack, and install the left and right lugs on the rack with 4 screws.



Step 3 Check and confirm the product is mounted firmly on the rack, mounting ends.

【Disassembling Device】

Step 1 Power off the device.

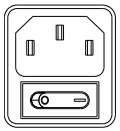
Step 2 Unscrew the fixed mounting lug screw on the rack.

Step 3 Shift out the device from rack, disassembling ends.

Notice before power on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact and power on.
- Power switch "—" means power ON, "O" means power OFF.
- Power OFF operation: First, put the powers switch to the "O" side and then disconnect the power supply. Finally disconnect the connector between the device and the power cord. Please notice the operation order above.

【Power Supply Connection】



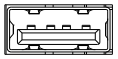
The device frame provides two power modules, adopts AC power socket with switch, and supports Power 1 and Power 2 inputs. Dual power supply should be input at the same time when the device is working normally. AC power supply range: 100～240VAC.

【RESET Button】



RESET button can be used to reboot the device and restore factory defaults. The operation is as follows: press the button for 1~2s and release it, and the device will restart automatically; press and hold the RESET button for 3 ~ 4s and release it, and the device will automatically restore the factory defaults.

【USB Port Connection】



The device frame provides one Type-A USB2.0 interface, which can be connected to an external USB flash disk to import or back up the switch configuration file.

【Console Port Connection】

The device frames provide 1 program debugging



port based on RS-232 serial port which can conduct device CLI command management after connecting to PC. The interface adopts RJ45 port, the RJ45 pin definition as follows:

Pin No.	2	3	5
Pin Definition	TXD	RXD	GND

【MANAGER Connection】



The device frame provides one MANAGER port, i.e. Gigabit Ethernet interface, for device network management.

【Checking LED Indicator】

The device frame provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the function of each LED is described in the table as below:

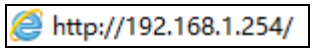
LED	Indicate	Description
PWR1-PWR2	ON	Power supply is running normally
	OFF	Power supply is disconnected or running abnormally
ALM	ON	Power supply or port link has alarm
	OFF	Power supply and port link have no alarm
RUN	ON	Device is not started or abnormal
	Blinking	The device is running normally
	OFF	The device is powered off or the device is abnormal.
G1-G12, X1-X8, MANAGER	ON	Port has established valid network connection
	Blinking	Port is in a network communication status
	OFF	Port hasn't established valid network connection.

【Logging in to WEB Interface】

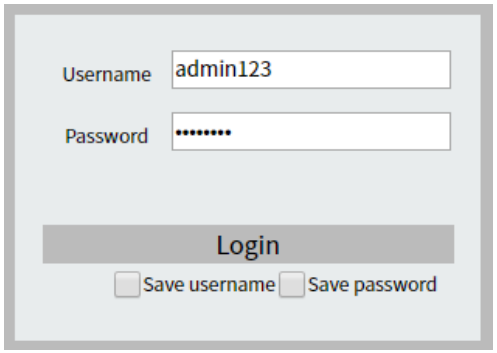
This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below.

Step 1 Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed.

Step 2 Enter device's IP address in the address bar of the computer browser.



Step 3 Enter device's username and password in the login window as shown below.



Step 4 Click "Login" button to login to the WEB interface of the device.

Note:

- The default IP address of the device is "192.168.1.254".
- The default username and password of the device are "admin123".
- If the user name or password is lost, user can restore it to factory settings via restoring factory setting button or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

【Specification】

Panel	
10Gigabit SFP+	1000/10GBase-X self-adaptive SFP+ slot
Gigabit SFP	100/1000Base-X self-adaptive SFP+ slot
Gigabit copper port	10/100/1000Base-T(X) self-adaptive RJ45 port, support full/half duplex, MDI/MDI-X self-adaption
CONSOLE port	CLI command management port (RS-232), RJ45
MANAGER port	10/100/1000Base-T(X) self-adaptive RJ45 port, support full/half duplex, MDI/MDI-X self-adaption
Indicator	Power indicator, alarm indicator, running status indicator, interface indicator
Switch Property	
Backplane bandwidth	256G
Packet buffer size	32Mbit
MAC Address Table	96K
Power Supply	
Input power supply	Simultaneous input of 100~240VAC dual power supply
Access terminal block	Single-phase socket with rocker switch
Power Consumption	
Full-load (high temperature)	≤ 60W@220VAC (all board cards and the complete machine are copper ports) ≤ 90W@220VAC (all board cards and the complete machine are fiber ports)
Working Environment	
Working temperature	-40～60℃
Storage temperature	-40～60℃
Working humidity	5%～95% (no condensation)
Protection grade	IP40 (metal shell)

【Disposal of Waste Electrical and Electronic Equipment (WEEE 2012/19/EU)】

(Applicable in the EU-member states)



The crossed-out wheeled bin symbol on the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted municipal waste but should be collected separately, in accordance with local laws and regulations.

A proper separate collection of end-of-life equipment for the subsequent recycling, treatment and environmentally compatible disposal, will help prevent potential damage to the environment and human health, facilitating the reuse, recycling and/or recovery of its component materials.

Private users should contact their vendor or municipal waste management service and ask for disposal information.

Professional users should contact their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users' cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.