



Logicbus IES6300 Series Managed Industrial Ethernet Switch Installation Guide

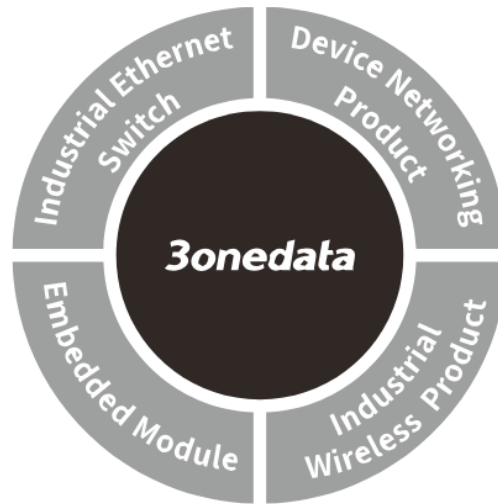
[Home](#) » [Logicbus](#) » Logicbus IES6300 Series Managed Industrial Ethernet Switch Installation Guide 



Contents

- 1 IES6300 Series Managed Industrial Ethernet Switch
- 2 Package Checklist
- 3 Product Overview
- 4 Panel Design
- 5 Mounting Dimension
- 6 DIN-Rail Mounting
- 7 Disassembling DIN-Rai
- 8 DC Power Supply Connection
- 9 AC Power Supply Connection
- 10 Relay Connection
- 11 DIP Switch Settings
- 12 I/O Port Connection
- 13 Console Port Connection
- 14 Checking LED Indicator
- 15 Logging in to WEB Interface
- 16 Specification
- 17 Disposal of Waste Electrical and Electronic WEEE 2012/19/EU
- 18 Documents / Resources
 - 18.1 References

IES6300 Series Managed Industrial Ethernet Switch



3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Xili, Nanshan District,

Shenzhen

Website: www.3onedata.com

Tel: +86 075526702688

Fax: +86 075526703485

Package Checklist

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

1. Industrial Ethernet switch
2. DIN-Rail mounting attachment
3. Certification
4. Warranty card

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 product is Gigabit managed DIN-Rail industrial Ethernet switch. For convenience, This series of product adopts the following number on the left in this guide, please affirm the number of your product.

Model I. IES6300-8GT2GS2HS-2P48 (8 Gigabit copper ports + 2 Gigabit SFP + 2 2.5G SFP, 12~48VDC redundant power supply)

Model II. IES6300-8GP2GS2HS-2P24-120W (8 Gigabit PoE copper ports + 2 Gigabit SFP + 2 2.5G SFP, 24VDC redundant power supply, 120W PoE power consumption)

Model III. IES6300-8GP2GS2HS-2P48-240W (8 Gigabit PoE copper ports + 2 Gigabit SFP + 2 2.5G SFP, 48VDC redundant power supply, 240W PoE power consumption)

Model IV. IES6300-8GT2GS2HS-P220 (8 Gigabit copper ports + 2 Gigabit SFP + 2 2.5G SFP, 220VAC/DC AC power supply)

Model V. IES6300-8GT2HS-2P48 (8 Gigabit copper ports + 2 2.5G SFP, 12~48VDC redundant power supply)

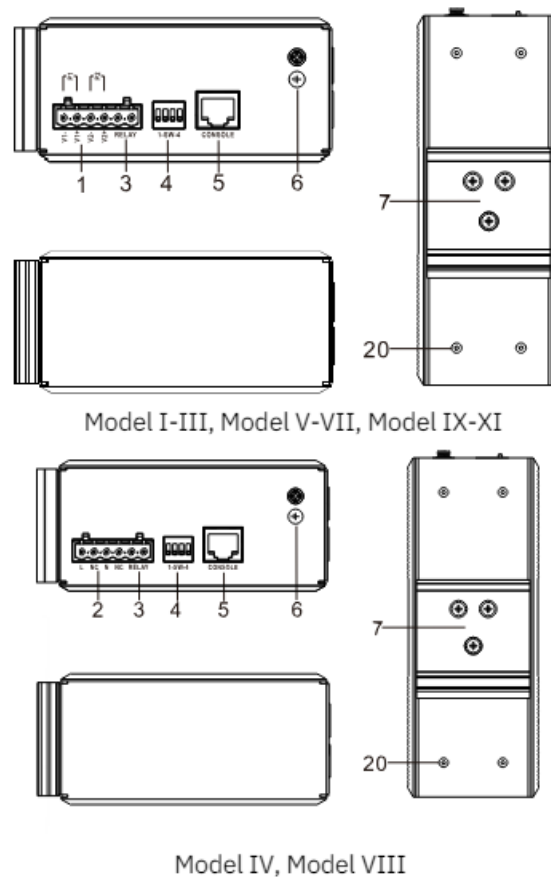
Model VI. IES6300-8GP2HS-2P24-120W (8 Gigabit PoE copper ports + 2 Gigabit SFP + 2 2.5G SFP, 24VDC redundant power supply, 120W PoE power consumption)

Model VII. IES6300-8GP2HS-2P48-240W (8 Gigabit PoE copper ports + 2 2.5G SFP, 48VDC redundant power supply, 240W PoE power consumption)

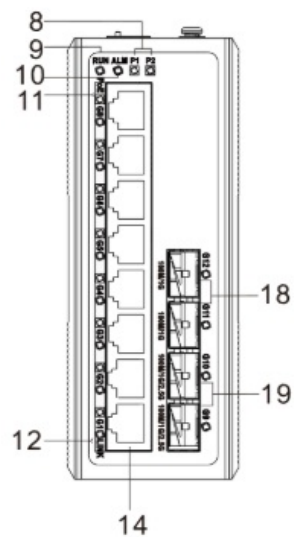
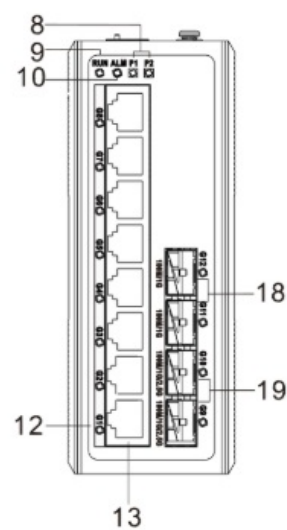
Model VIII. IES6300-8GT2HS-P220 (8 Gigabit copper ports + 2 2.5G SFP, 220VAC/DC AC power supply) odel IX. IES6300-8GT2GS2HS-2DI2DO-2P48 (8 Gigabit copper ports +2 Gigabit SFP + 2 2.5G SFP + 2DI + 2DO, 12~48VDC redundant power supply)
 Model X. IES6300-8GP2GS2HS-2DI2DO-2P24-120W (8 Gigabit PoE copper ports + 2 Gigabit SFP + 2 2.5G SFP + 2DI + 2DO, 24VDC redundant power supply, 120W PoE power consumption)
 Model XI. IES6300-8GP2GS2HS-2DI2DO-2P48-240W (8 Gigabit PoE copper ports + 2 Gigabit SFP + 2 2.5G SFP + 2DI + 2DO, 48VDC redundant power supply, 240W PoE power consumption)

Panel Design

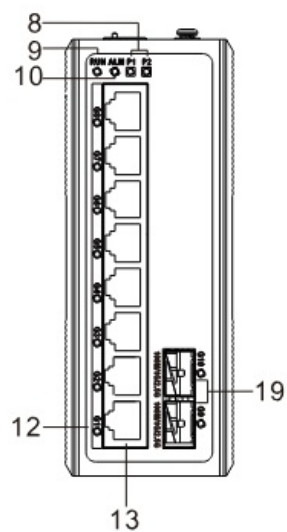
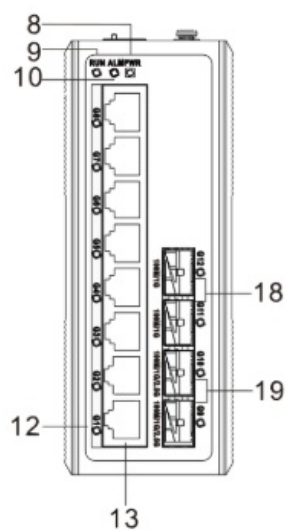
Top view, bottom view and rear view



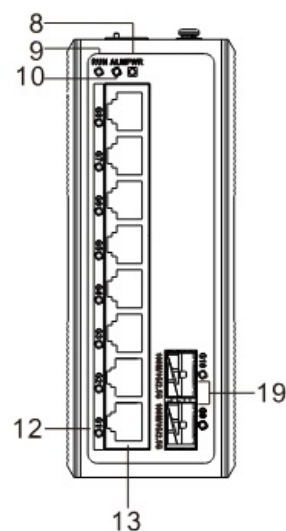
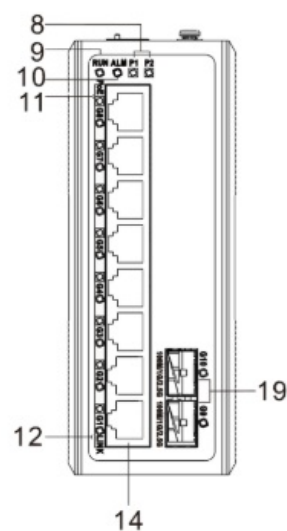
Front view

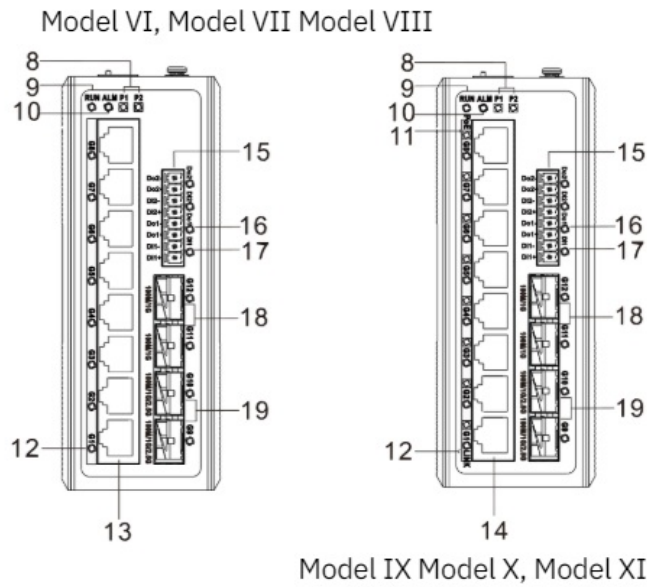


Model I Model II, Model III



Model IV Model V

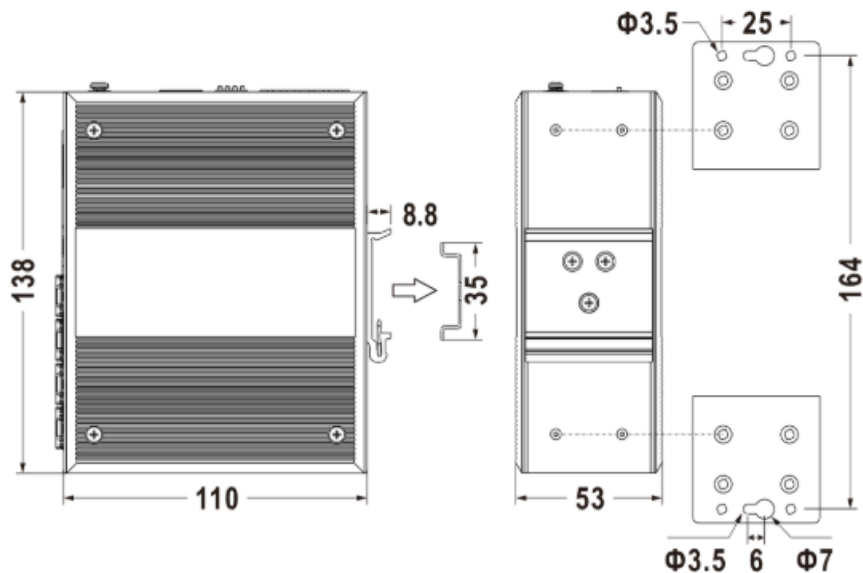




1. Terminal blocks for Power Supply P1/P2 Input
2. Terminal blocks for Power Supply L/N Input
3. Terminal blocks for relay alarm output RELAY
4. DIP switch
5. Console port
6. Grounding screw
7. DIN-Rail mounting kit
8. Power indicator
9. Running indicator (RUN)
10. Alarm indicator (ALM)
11. PoE indicator (G1-G8)
12. Ethernet port indicator (G1-G12)
13. 10/100/1000Base-T(X) copper port (G1-G8)
14. 10/100/1000Base-T(X) Gigabit PoE copper port (G1-G8)
15. I/O input and output interfaces (DI1-DI2, DO1-DO2)
16. I/O output indicator (DO1-DO2)
17. I/O input indicator (DI1-DI2)
18. 100/1000Base-X SFP slot (G11-G12)
19. 100/1000/2.5GBase-X, SFP slot(G9-G10)
20. Wall-mounting location hole

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.

DIN-Rail Mounting

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps as follows:

Step1 Check if the DIN-Rail mounting kit is installed firmly.

Step2 Insert the bottom of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, and then insert the top into DIN-Rail.

Tips: Insert a little to the bottom, lift upward and then insert to the top.

Step3 Check and confirm the product is firmly installed on DIN-Rail, then mounting ends.

Disassembling DIN-Rai

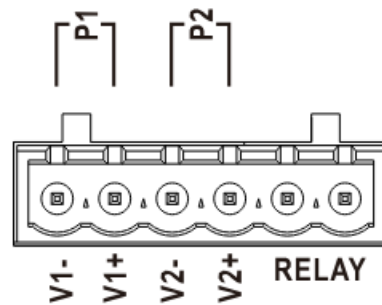
step1 Power off the device.

Step2 After lifting the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, 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 OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

DC Power Supply Connection



The DC device of the series provides 6-pin 5.08mm pitch power supply terminal blocks and power supply occupies the left 4 pins. It supports two independent DC power supply systems, P1 and P2. The series of device supports redundant

power supply, two power supply can work at the same time.

The device will still run non-stop when one power supply fails. The pin definitions of power supply are shown in the left figure. This series supports 3 different power supply ranges. Please notice the corresponding power supply type of the device in case it damages the device.

- 12~48VDC redundant power supply

The power supplies of Model I, Model V and Model IX support non-polarity connection, and the device can still work normally after reverse connection. The definitions of power pin are shown in the figure above, and the power input range is 12~48VDC.

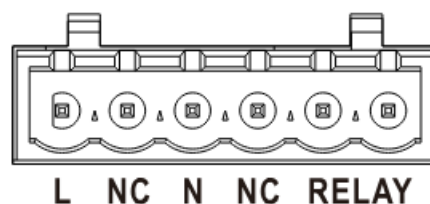
- 24VDC redundant power supply

The power supplies of Model II ,Model VI and Model X support anti-reverse connection, which cannot power the device but won't damage it. The definitions of power pin are shown in the figure above, and the power input is 24VDC.

- 48VDC redundant power supply

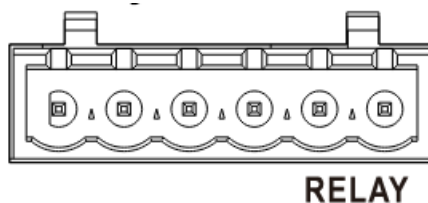
The power supplies of Model III, Model VII and Model XI support anti-reverse connection, which can cannot power the device but won't damage it. The definitions of power pin are shown in the figure above, and the power input is 48VDC.

AC Power Supply Connection



This AC device provides 6-pin 5.08mm pitch terminal blocks, power supply occupies the left 4 pins. The pin definitions of power supply are shown in the left figure.

Relay Connection



This device provides 6-pin 5.08mm pitch terminal blocks, relay occupies the right 2 pins. Relay terminals are a set of normally open contacts of the device alarm relay. They are open circuit in the state of normal non alarm, closed when any alarm information occurs. For example, they are closed when powered off, and send out alarm. The product supports 1 relay alarm information output that can output DC power supply alarm information or network abnormality alarm. It can be connected to alarm light or alarm buzzer or other switching value collecting devices, which can timely inform operators when the alarm occurs.

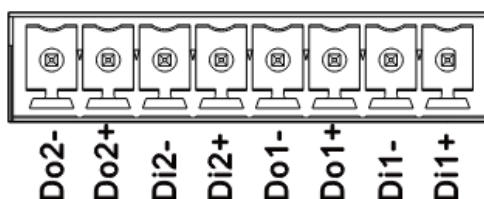
DIP Switch Settings



The series of devices provide 4-bits DIP switch for function setting, where “ON” is enable valid terminal. The definitions of DIP switch are as follows:

No	Definition	Operation
1	Restore Factory Settings	Set the DIP switch to ON, the device will root automatically and restore to factory settings, then turn off the DIP switch.
2-4	Reserved	—

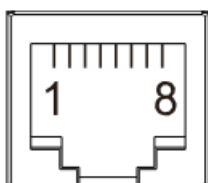
I/O Port Connection



Model IX and Model X provide 8-pin 3.81mm pitch terminal blocks and 2 DI and 2 DO. This device can detect and send I/O input status to management software, operators can set the conditions of alarm status via management software. When the I/O input status meets the set alarm conditions, the I/O output alarm would be triggered. The pin definitions of I/ O port are shown as follows:

I/O port	PIN	Definition
DI digital signal input channel 1	DI1+, DI1-	I/O signal input
DI digital signal input channel 2	DI2+, DI2-	
DO digital signal output channel 1	DO1+, DO1-	I/O relay output
DO digital signal output channel 2	DO2+, DO2-	

Console Port Connection



The device provides 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
Definition	TXD	RXD	GND

Checking LED Indicator

The device provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

LED	Indicate	Description
P1/P2/PWR	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	Blinking 1 time per second, system is running normally
	OFF	The device is powered off or the device is abnormal.
LINK (G1-G12)	ON	Ethernet port has established a valid network connection
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established valid network connection
PoE (G1-G8)	ON	POE port is powering other PD devices normally
	OFF	POE is disabled or disconnected
DI(1-2)	ON	I/O has input information
	OFF	I/O has no input information
DO(1-2)	ON	I/O has output alarm information, and it's status is on.
	OFF	I/O has no output alarm information, and it's status is off.

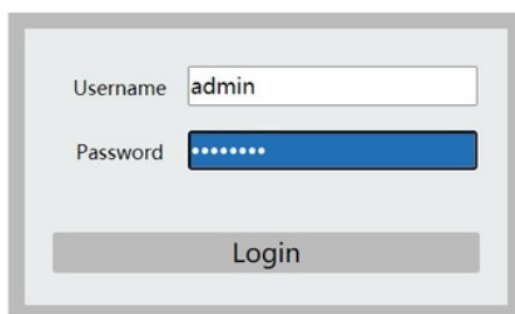
Logging in to WEB Interface

This series of devices supports WEB management and configuration, and computers can access devices through Ethernet interfaces. 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: <https://192.168.1.254>

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



The image shows a login window with a light gray background. It contains two input fields: 'Username' with the text 'admin' and 'Password' with masked characters (dots). Below these fields is a large gray button labeled 'Login'.

Step 4 Click the "login" button. Change the initial password when logging into the device for the first time, after that, relog into the device to access the device's Web interface.

Note:

- The default IP address of the device is “192.168.1.254”.
- The default user name and password of the device are “admin”.
- When logging in to the device for the first time, the system will prompt to change the initial password of the default user; The length of the new password string must be greater than or equal to 8 and be composed of two or more kinds of uppercase letters, lowercase letters, numbers and special characters.
- If the user name or password is lost, the factory settings can be restored through management software of the device; or make a physical loopback between Port 1 and Port 2 within the first minute when the switch restarts.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

Specification

Panel	
Gigabit PoE copper port	10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Auto tuning. PoE power supply pin: V+, V+, V-, V- correspond to pin 1, 2, 3, 6. The maximum output power of single port: 30W
Gigabit copper port	10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Auto tuning
Gigabit SFP slot	100/1000Base-X self-adaption or forced mode, SFP slot
2.5G SFP slot	100/1000/2.5GBase-X self- adaption or forced mode, SFP slot
I/O port	Support 2 inputs and 2 outputs, 8- pin 3.81mm pitch terminal blocks, support dry contact input relay output
Console port	CLI command management port (RS-232), RJ45
Alarm interface	6-pin 5.08mm pitch terminal blocks, alarm occupies the right 2 pins, supports 1 relay alarm information output, and the current load capacity is 1A@30VDC or 0.3A@125VAC

Indicator	Running indicator, alarm indicator, power supply indicator, interface indicator, PoE indicator, I/O output indicator, I/O input indicator
Switch Property	
Backplane bandwidth	30G
Packet buffer size	4Mbit
MAC Address Table	8K
Power Supply	
Access terminal block	6-pin 5.08mm pitch terminal blocks, power supply occupies 4 pins
Power input	<ul style="list-style-type: none"> • Model I, V, IX: 12~48VDC, non-polarity, redundant backup, built-in 3A overcurrent protection • Model II, VI: 24VDC PoE, anti-reverse connection, redundant backup, built-in 5A overcurrent protection • Model III, VII, X: 48VDC PoE, anti-reverse connection, redundant backup, built-in 5A overcurrent protection • Model IV, VIII: 220VAC/DC
Power Consumption	
No-load	≤5.76W@48VDC
Full-load	≤ 12W@48VDC (without PoE load) ≤ 132W@24VDC (with 120W PoE load) ≤ 252W@48VDC (with 240W PoE load)
Working Environment	
Working temperature	-40~75°C
Storage temperature	-40~85°C
Working humidity	5% 95% (no condensation)
Protection grade	IP40 (metal shell)

Disposal of Waste Electrical and Electronic WEEE 2012/19/EU



■ (Applicable in the EU-member states)

The crossed-out wheeled bin symbol on 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

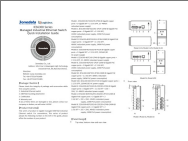
with local laws and regulations. A proper separate collection of endoflife equipment for the subsequent recycling, treatment and environmentally compatible disposal, will help prevent potential damage to the environment and human health, facilitating the reuse, recycling and/or recovery of its component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

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

Professional users should contact theirs suppliers and check the terms of their selling agreement. This product must not be disposed with other commercial waste.

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

Documents / Resources

	Logicbus IES6300 Series Managed Industrial Ethernet Switch [pdf] Installation Guide IES6300 Series Managed Industrial Ethernet Switch, IES6300 Series, Managed Industrial Ethernet Switch, Industrial Ethernet Switch, Ethernet Switch, Switch
---	---

References

- [3onedata | Industrial Communication Solutions](#)
- [User Manual](#)

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.