

Industrial EN50155 M12 Gigabit PoE Switch

WI-PS305G-F-M12 | WI-PS310G-F-M12



Overview

The Wi-Tek Industrial EN50155 M12 Gigabit PoE Switch is designed for rail crossing applications such as vehicles and trackside installations. This series of switches ensures stable operation under the vibration and shock of industrial environments through the tight, secure connection of M12 connectors. They offer 4/8 M12 Gigabit 802.3af/at PoE+ ports and 1/2 M12 Gigabit ports. Suitable for powering electrical receiving devices that comply with 802.3at/af standards, such as IP cameras, wireless access points, and IP phones.

The flat, compact metal enclosure and interface front-access design make it easy to install cabinets with limited space, saving installation space for cabinets. In addition supports the Wall-mount/DIN-Rail installation, which increases the flexibility of the equipment installation.

Features

Full Gigabit Interfaces Design

WI-PS305G-F-M12: 4 x M12 (X-code) Gigabit PoE+ ports and 1 x M12 (X-code) Gigabit port

WI-PS310G-F-M12: 8 x M12 (X-code) Gigabit PoE+ ports and 2 x M12 (X-code) Gigabit ports with Bypass function

-40~75°C Operating Temperature

-40~75°C working temperature design, makes it meet the requirement of harsh application environment.

Unique Industrial Design

With EN50155 compliance, the Flat shell design provides front access to ports and power interfaces for easier operation, is suitable for space-limited installation, and ensures it operates steadily in harsh environments. Designed with M12 connectors, suitable for applications such as rail transit and vehicles that are resistant to vibration and shock.

M12 Type Power Interface, Powerful Power Supply

The 5-pin M12 A-coded male connector on the switch is used for the DC power input, which provides a stable power supply system.



Model	WI-PS305G-F-M12	WI-PS310G-F-M12
Hardware Specifications		
Interfaces		
Downlink Ports	4 x M12 (X-code) Gigabit PoE+ ports	8 x M12 (X-code) Gigabit PoE+ ports
Uplink Ports	1 x M12 (X-code) Gigabit port	2 x M12 (X-code) Gigabit ports with Bypass function
PoE		
PoE Port	Port 1–4	Port 1–8
PoE Standard	Port 1–4: IEEE802.3 af/at	Port 1–8: IEEE802.3 af/at
PoE Pin Assignment	1/2(+), 3/6(-)	
PoE Power	30W Max. for each port, 120W Max. for PoE power budget.	30W Max. for each port, 200W Max. for PoE power budget at 56V DC input; 90W Max. for PoE power budget at 24V DC input
Switch Property		
Standards and Protocols	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.3af PoE IEEE 802.3at PoE+	
Forwarding Mode	Store and Forward	
Switching Capacity	10Gbps	20Gbps
Packet Forwarding Rate	7.44Mpps	14.88Mpps
MAC Address Table	2k	8K
Packet Buffer Memory	1Mbit	4.1Mbit
Jumbo Frame	9kB	



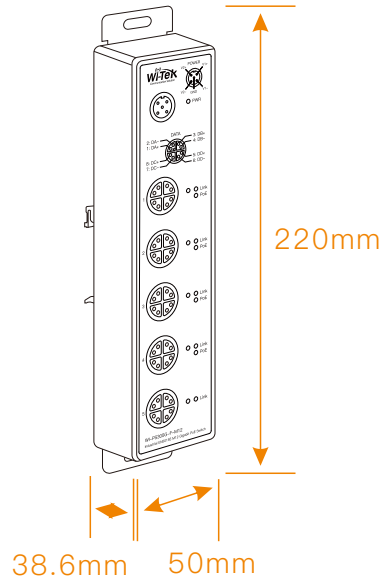
Model	WI-PS305G-F-M12	WI-PS310G-F-M12
Power Supply		
Power Connector	M12 A-Coded	
Input Power	Redundant Dual DC 48V-56V Power Input	Redundant Dual DC 24V-56V Power Input
Power Consumption	Idle: 5W 100% Traffic Rate with PoE: 125W	Idle: 8.96W 100% Traffic Rate with PoE: 209W (When 56V DC input) 100% Traffic Rate with PoE: 99W (When 24V DC input)
Physical Characteristics		
LED Indicators	PWR(Green): On: The device power on is normal Off: The device is power off or failed Port 1-5: Green on: Port connected Orange on: PoE enabled Blinking: Data transmission Off: Port disconnected and PoE disabled	PWR1(Green): On: Power 1 is detected PWR2(Green): On: Power 2 is detected PoE (Orange): On: PoE enabled Off: PoE disabled Link (Green): On: Port connected Off: Port disconnected Blinking: Data transmission
Fan Quantity	Fanless	
Switch Dimension (W*D*H)	220*50*38.6mm	196*99*59mm
Package Dimension	252*85*59mm	225*112*77mm
Weight	Net Weight: 0.37kg	Net Weight: 0.89kg
	Package Weight: 0.49kg	Package Weight: 1.67kg
Installation	DIN-rail, Wall-mount	Wall-mount



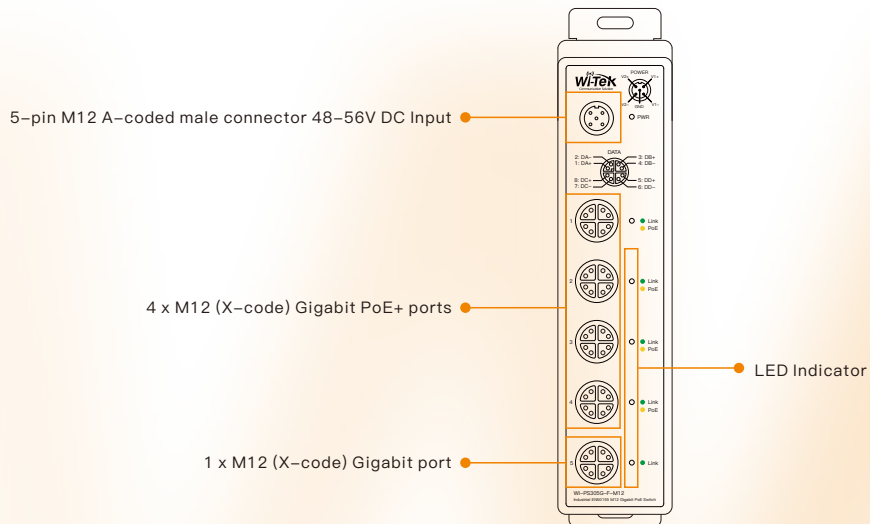
Model		WI-PS305G-F-M12	WI-PS310G-F-M12
Environmental			
Reliability	Surge Immunity	IEC 61000-4-5 Common mode 2kV Differential mode 1kV	
	ESD Protection	IEC 61000-4-2 Contact discharge 6kV Air discharge 8kV	
Circuit Protection		Support overload current/reserve polarity protection	
Operating Temperature		-40°C to 75°C(-40°F to 167°F)	
Operating Humidity		10%~90% RH no condensation	
Storage Temperature		-40°C to 85°C(-40°F to 176°F)	
Storage Humidity		10%~90% RH no condensation	
Certification			
Certification		CE, FCC, RoHS, UKCA, EN50155	

WI-PS305G-F-M12

Dimensions (mm)

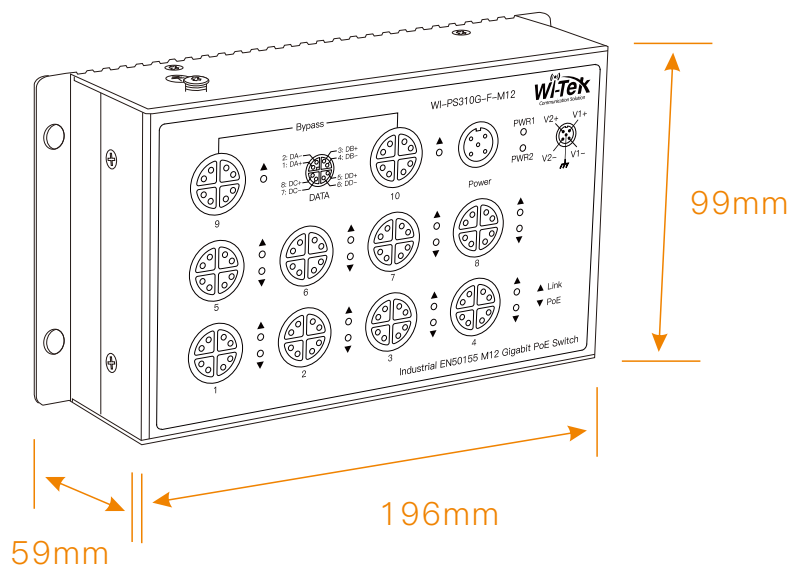


Front Panel

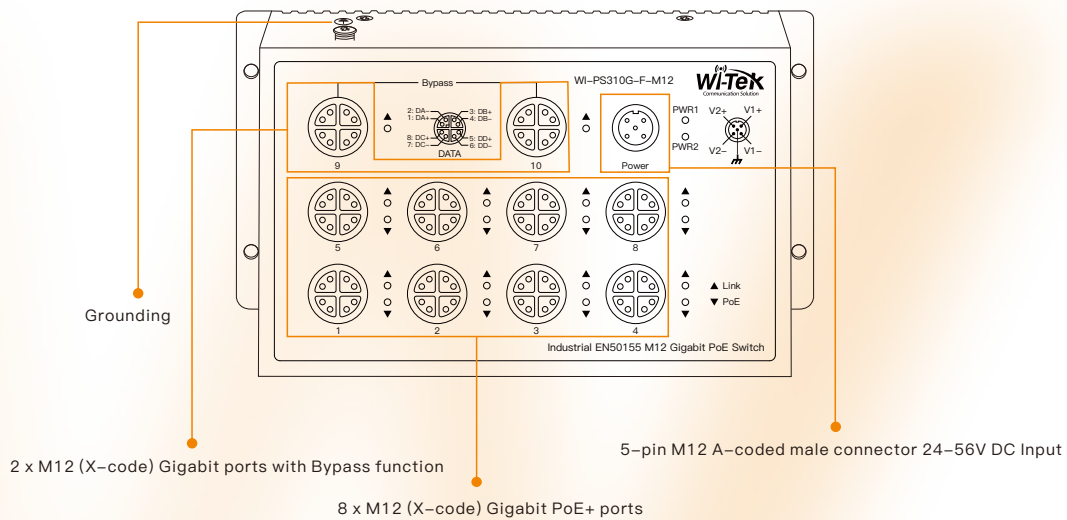


WI-PS310G-F-M12

Dimensions (mm)



Front Panel



Package Contents

Welcome to order our products. After purchasing, you will receive:

WI-PS305G-F-M12	
Items	Quantity
Switch	1 pcs
Wall Mount Kit Set	2 pcs
Din Rail Bracket	1 pcs
Philips Head Screw	3 pcs
Quick Installation Guide	1 pcs

WI-PS310G-F-M12	
Items	Quantity
Switch	1 pcs
Quick Installation Guide	1 pcs



Wireless-Tek Technology Limited

Address: Building 3, Units 1801-1807, 1812, Huaqiang Era Plaza, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China.

Website: www.wireless-tek.com

Tel: 86-0755-32811290

Email: sales@wireless-tek.com

Technical Support: tech@wireless-tek.com



Technical Support



Cloud Management



Company Website