Product Name	**GAOTek Industrial Ethernet Switch**
Product SKU	**GAOTek-ERS-127**
Product URL	https://gaotek.com/product/gaotek-industrial-ethernet-switch-2/

Based in New York City & Toronto, GAO Tek Inc. is ranked as one of the top 10 global B2B technology suppliers. GAO ships overnight within the U.S. & Canada & provides top-notch support thanks to its 4 decades of experiences.

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GAOTek Industrial Ethernet Switch

1. Overview

The industrial Ethernet switches provides excellent industrial quality, such as vibration resistance, high/low temperature, dust-proof and surge protection, through the design of fanIess heat dissipation circuit, wide range working environment temperature, high protection grade and so on. Moreover, it integrates a variety ofrich protocols such as routing, switching, and security, which greatly improves the flexibility of networking andenhances the reliability and security of industrial networks. It can also meet the deployment requirements of rail transit, safe cities, intelligent transportation, outdoor monitoring, and other harsh environments.

2. Indicator Lamp and DIP

Indicator Lamp Meaning Contrast Table 1-1

Indicator Lamp		State	Meaning
P/P1/P2/PS1 /PS2/PWR	Power lamp and power supply under-voltage alarm lamp, under-voltage alarm priority is higher than power lamp.	The lamp flashes uniformly in a period of 1s.	The power supply of the equipment is lower than the lower limit of the input range of DC10V, indicating an under-voltage alarm.
		Indicator lamp off.	Power channel is not powered.
		Indicator lamp on.	Power channel is not powered.
O/OPT	Fiber-port lamp and power supply over-voltage alarm	The lamp flashes uniformly in a	The power supply of the device exceeds theupper limit

	lamp, over-voltage alarm priority is higher than fiber port link/act lamp (fiber port lamp some panels are directly marked as digital).	period of 0.5s.	of the input range of DC58V, indicating an over-pressure alarm.
		Indicator lamp off.	Fiber port not connected.
		Indicator lamp on.	Fiber port is connected.
		Indicator lamp flash.	Fiber port is connected and data is sent and Received.
A/ALM	Device alarm lamp and data transmission indicator lamp.	Indicator lamp on.	Device has no alarm.
		Indicator lamp on.	The device has alarms (Temperature alarm, LFP alarm, Dying-gasp alarm).
		When Console/RS232/RS485 has data to send, this lamp flashes according to the rhythm of data sending and receiving.	
N/NMC	Management indicator lamp and data receiving indicator lamp	Indicator lamp off	No embedded module
		Indicator lamp on	Have embedded module and initializing status
		Indicator lamp flash	Have embedded module and initialization completed, into normal working mode When the console/RS232/RS4B5 has data reception, this lamp flashes according to the rhythm of data sending and receiving.

RUN	Running indicator lamp	Indicator lamp on.	Device works normally.
		Indicator lamp off.	Device is not running.
		Indicator lamp flash..	Device software loading.
1000Mbps copper port indicator lamp	Green lamp (Active)	Indicator lamp on.	Port is connected.
		Indicator lamp off	Port not connected.
		Indicator lamp flash.	Port is connected and data is sent and received.
	Yellow lamp (SPD)	Indicator lamp on	1000M is connected.
		Indicator lamp off	10/100M is connected
100Mbps copper port indicator lamp	Green lamp (Active)	Indicator lamp on	Port is connected
		Indicator lamp off	Port not connected
		Indicator lamp flash	Port is connected and data is sent and received
	Yellow lamp (SPD)	Indicator lamp on	100M is connected
		Indicator lamp off	10M is connected
Reset/config button	Restore factory setup / restart	Operation method: long press (>20s)	

Unmanaged DIP Switch Meaning Contrast Table 1-2

Dip Switch	Function	ON State	OFF State
Bit1(Silk-screen: LFP/(CD))	LFP C/D	Enable remote PD reset function (LFP function is enabled when the device is 1	Turn off remote PD restart function (LFP function is turned off

		fiber and 1 cooper switch)	when the device is 1 fiber and 1 cooper switch)
Bit2(Silk-screen: LGY)	LEGACY function switch	Support standard and non-standard PD power supply	Only supply power to standard PD, does not support non-standard PD power supply
Bit3(Silk-screen: VLAN}	Port Isolation function	Enable port isolation function	Turn off port isolation function
Bit4(Silk-screen ： BSR/RST)	BSR: Storm Control	Enable storm control	Turn off storm control
	RST: Remote PD Reset Every Day function	Reset the remote PD device after 24 hours	Turn off this function

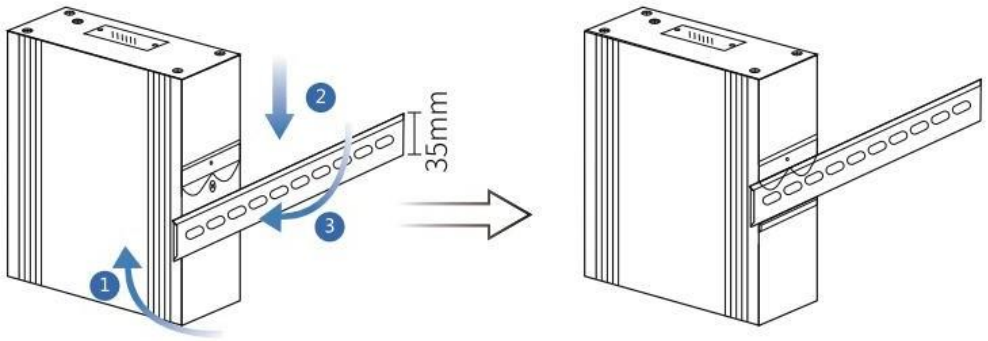
3. Device Installation

Installation description:

Industrial Ethernet switch adapts DIN rail installation.

1. Tilt the device up, and make the clasp on the upper end of the device buckle on the DIN rail.
2. Press down the device so that the lower end of the buckle is buckled into the DIN rail.

3. Check that whether the inspection is stable after buckle.



4. PoE Line Sequence Introduction

PoE is a technology that uses Power over Ethernet, the device supports 802.3AF and 802.3AT standards. It is required that the switching power supply should be between DC 48V and DC 58V, the PoE connection should be consistent with the network cable connection, and 1,2,3 and 6 cables should be used as both data transmission and PoE power supply.

5. Power Input

Industrial Ethernet switches are dual power backups. When all two power supplies are connected, only one power supply works. When this power fails, it automatically switches to another power supply to achieve redundant protection of the power supply. The meaning of power wiring is shown in Table 1-4.

Power Supply Meaning Contrast Table 1-3

P1+	First circuit power supply positive pole
Pl-	First circuit power supply negative pole
P2+	Second circuit power supply positive pole
P2-	The second circuit power supply negative pole
P1/P2-	First and second circuits share a negative pole

+	The positive pole of power supply
-	The negative pole of power supply

Note： Please connect the positive and negative poles according to the terminal of the Phoenix terminal and input voltage according to the voltage range. (Generally, DC10-58V, based on the description of the side cover) Only one power supply can work properly.

6. Power Installation

Power installation is shown as the following diagram (Only for the schematic diagram, not including all panels,the wiring is based on the positive and negative pole):+