

Industrial Switch

SP3006F-BT | SP3010F-BT | SP3018F



Overview

Wi-Tek Superic industrial unmanaged PoE switch provide 4/8/16 Gigabit Ethernet RJ-45 ports and 2 Gigabit SFP uplink ports. The four RJ-45 ports are compatible with 802.3bt and up to 90W poe power output(only for SP3006F-BT SP3010F-BT). Professional design providing a flexible, easy to use and reliable industrial network solution.

Redundant power design with polarity reverse/over-voltage/over-current protection, guarantee the safe power supply. Solid shell, wide operation temperature from -40°C to 75°C and high-level EMI/EMC capability design, ensure its stable and reliable operation even in harsh environment. It is the best choice for outdoor CCTV project, wireless coverage project and the project of industrial application scenarios such as factory and transportation.

Features

Full Gigabit Interfaces Design

SP3006F-BT: 4x10/100/1000 Base-T PoE Ports and 2x1000 Base-X SFP ports
 SP3010F-BT: 8x10/100/1000 Base-T PoE Ports and 2x1000 Base-X SFP ports
 SP3018F:16x10/100/1000 Base-T PoE+ Ports and 2x1000 Base-X SFP ports

High Level Protection Design

6kV surge immunity for power and Ethernet ports, 15kV air discharge and 8kV contact discharge ESD protection, makes it an ideal choice for outdoor application scenario.

Multiple Smart DIP Mode

1.VLAN Mode(SP3006F-BT SP3010F-BT):

All downlink ports are isolated from each other, but can communicate with uplink ports.

link aggregation(SP3018F):

Link aggregation is the combining of multiple uplink ports in parallel, in order to increase throughput beyond what a single connection could sustain, to provide redundancy in case one of the links should fail.

2.Extend Mode:

The transmission distance of port 1-2 (SP3006F-BT) 1-4 (SP3010F-BT SP3018F) can be up to 250m, but the rate is limited to 10Mbps.

3.QoS Mode:

Port 1-2 (SP3006F-BT SP3018F) / 1-4 (SP3010F-BT) are on high data transmit priority.

4.PoE Watchdog Mode:

All PoE ports enable PoE watchdog, which can detect and reboot the offline compliant PoE powered devices.

Redundant DC Power Input Design

Support redundant 44-57V DC power input, provide reliable alternative power access solutions.

Specifications



Model	SP3006F–BT	SP3010F–BT	SP3018F
Hardware Features			
Interfaces			
Downlink Ports	4 x 10/100/1000Mbps RJ45 ports	8 x 10/100/1000Mbps RJ45 ports	16 x 10/100/1000Mbps RJ45 ports
Uplink Ports	2 × 1000Mbps SFP ports	2 × 1000Mbps SFP ports	2 × 1000Mbps SFP ports
PoE			
PoE Port	Port 1–4	Port 1–8	Port 1–16
PoE Standard	Port 1–4: 802.3af/at/bt	Port 1–4: 802.3af/at/bt Port5–8: 802.3af/at	802.3af/at
PoE Power Supply Type	Mid–span and End–span		Mid–span
PoE Pin Assignment	1/2(+), 3/6(–), 4/5(+), 7/8(–)		1/2(+), 3/6(–)
PoE Power	90 W max for each port, 120 W Max. (PoE power budget)	Port 1–4: 90 W max for each port Port5–8: 30W max for each port; 240 W Max. (PoE power budget)	30 W max for each port, 240 W Max.(PoE power budget)
Switch Property			
Standards and Protocols	IEEE 802.3 10Base–T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full–Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power–Over–Ethernet IEEE 802.3at Power Over Ethernet Plus PSE IEEE 802.3bt Power Over Ethernet Type 3		IEEE 802.3 10Base–T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full–Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power–Over–Ethernet IEEE 802.3at Power Over Ethernet Plus PSE
Forwarding Mode	Store and Forward		
Switching Capacity	12 Gbps	20 Gbps	36 Gbps
Packet Forwarding Rate	8.9 Mpps	14.9 Mpps	26.8 Mpps
MAC Address Table	16 k		
Packet Buffer Memory	2 Mbit		
Jumbo Frame	10 kB		
Power Supply			
Input Power	Power 1 (Main): 44–57V DC, Power 2 (Backup): 44–57V DC		
Power Consumption	Idle: 6 W	Idle: 10 W	Idle:10 W



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Physical Characteristics			
LED Indicators	P Off: the device is power off or failed Green On: the device power on is normal	P Off: the device is power off or failed Green On: the device power on is normal	P Off: the device is power off or failed Green On: the device power on is normal
	S Off: total PoE usage < 50% Red blinking: 50% < total PoE usage < 90% Red on: total PoE usage ≥ 90%	S Off: total PoE usage < 50% Red blinking: 50% < total PoE usage < 90% Red on: total PoE usage ≥ 90%	S Off: total PoE usage < 50% Red blinking: 50% < total PoE usage < 90% Red on: total PoE usage ≥ 90%
LED Indicators	Link Off: ports link down On: ports link up Blinking: data on TX/RX	Link Off: ports link down On: ports link up Blinking: data on TX/RX	Link Off: ports link down On: ports link up Blinking: data on TX/RX
	PoE Off: PoE not working On: PoE working	PoE Off: PoE not working On: PoE working	PoE Off: PoE not working On: PoE working
	5, 6(Fiber ports indicators) Off: ports link down Green On: ports link up Green Blinking: data on TX/RX	9, 10(Fiber ports indicators) Off: ports link down Green On: ports link up Green Blinking: data on TX/RX	17, 18(Fiber ports indicators) Off: ports link down Green On: ports link up Green Blinking: data on TX/RX
Fan Quantity	Fanless		
Switch Dimensions	145*105*57mm		176*123*57mm
Package Dimensions	187*151*72 mm		238*185*72 mm
Weight	Net Weight: 0.88 kg	Net Weight: 0.90 kg	Net Weight: 1.28 kg
	Package Weight: 1.00 kg	Package Weight: 1.01 kg	Package Weight: 1.44 kg
Installation	Desktop, DIN–rail		

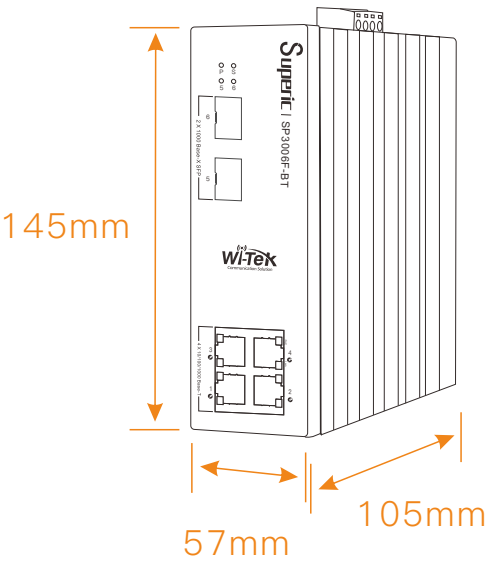


Model	SP3006F-BT	SP3010F-BT	SP3018F
Environmental			
Surge Immunity of Ethernet ports	IEC 61000-4-5 Common mode 6kV Differential mode 2kV		
Surge Immunity of power	IEC 61000-4-5 Common mode 6kV Differential mode 4kV		
ESD Protection	IEC 61000-4-2 Contact discharge 8kV Air discharge 15kV		
Operating Temperature	-40°C ~ 75°C(-40°F to 167°F)		
Storage Temperature	-40°C ~ 85°C(-40°F to 185°F)		
Operating Humidity	5% ~ 95%(Non-condensation)		
Certification			
Certification	CE, FCC, RoHS, UKCA, RCM		

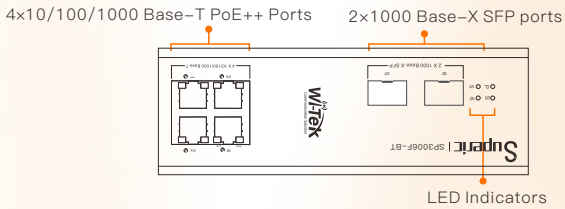
Appearances and Dimensions

SP3006F-BT

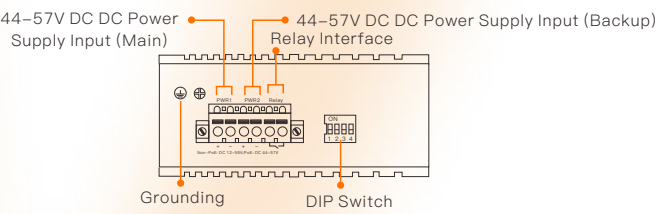
Dimensions (mm)



Front Panel

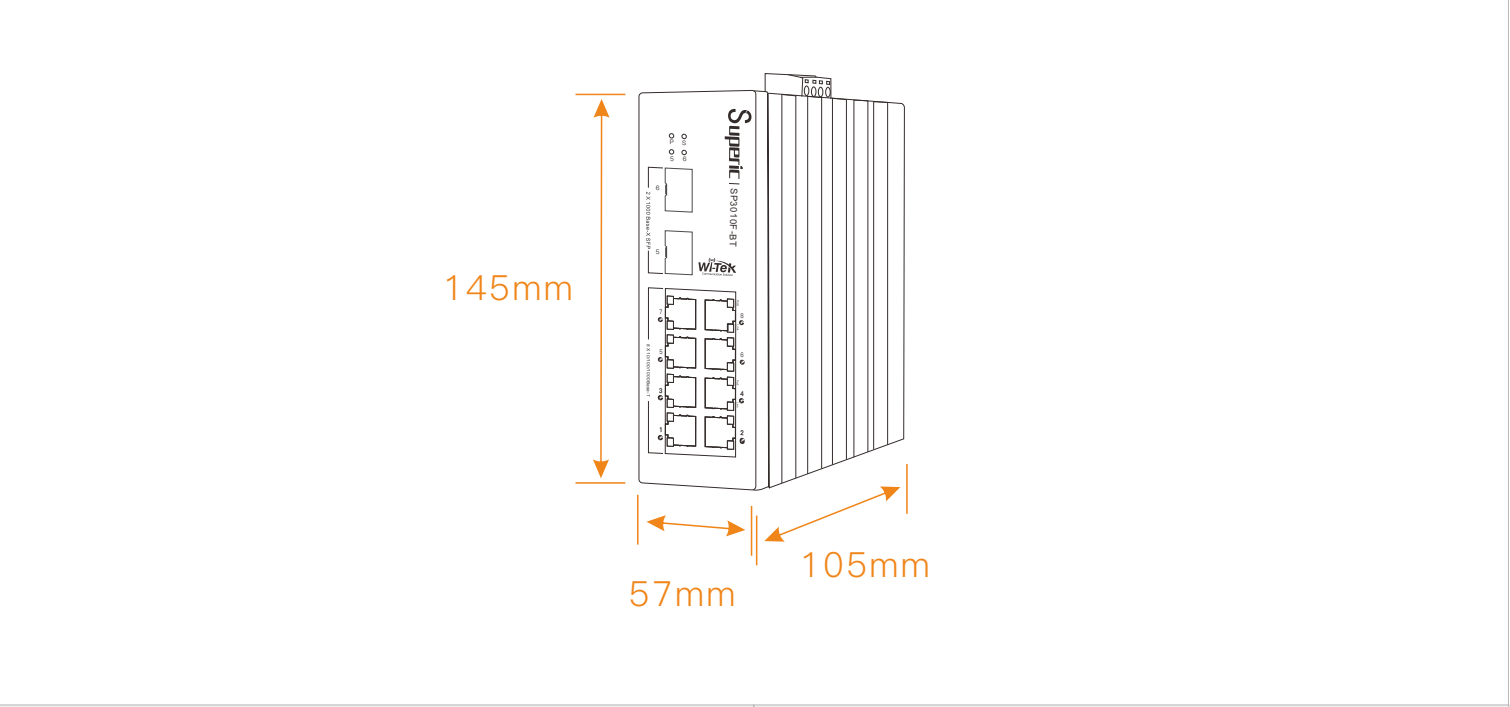


Side Panel

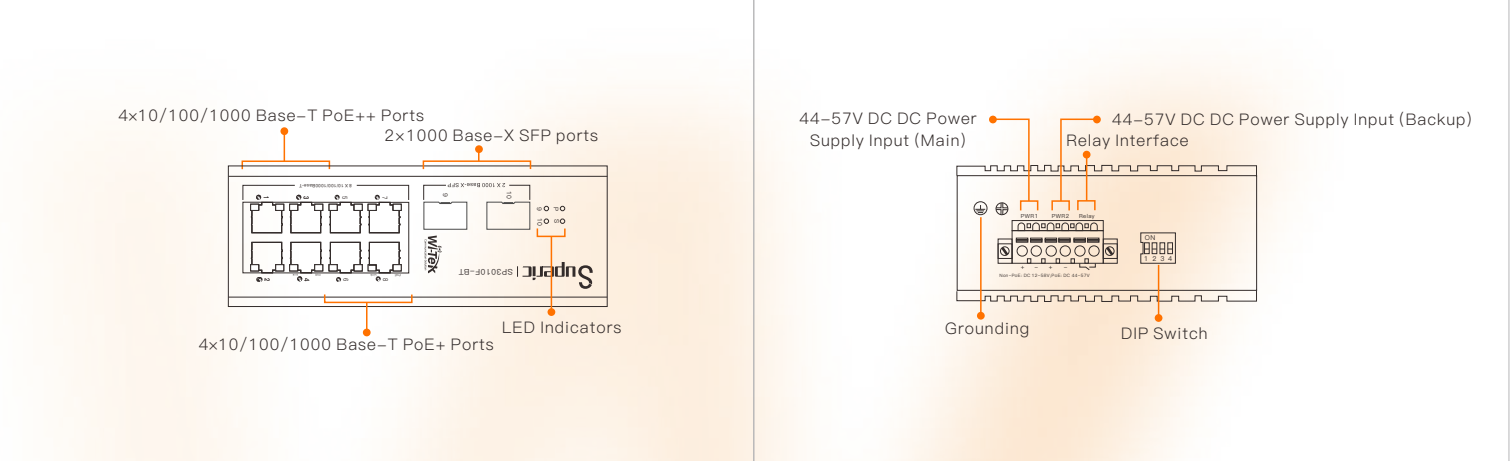


SP3010F-BT

Dimensions (mm)

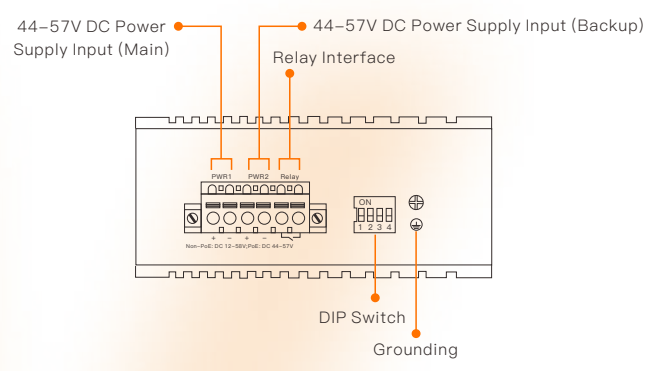
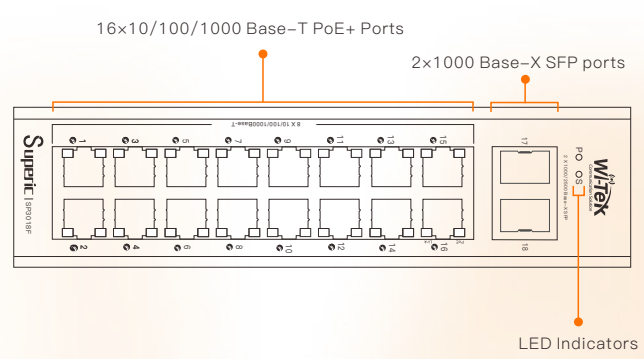
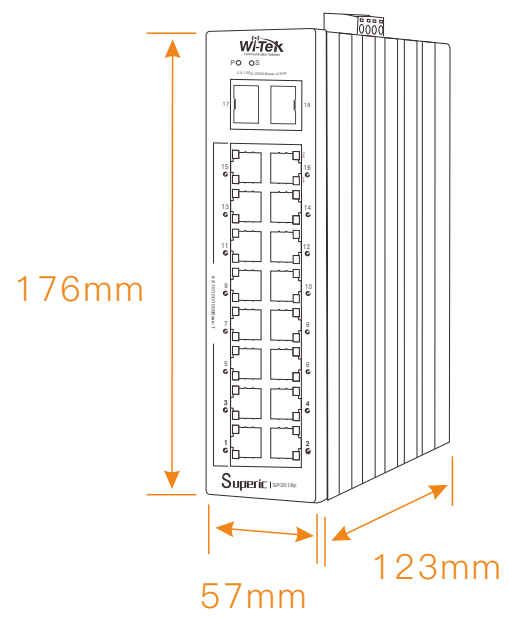


Front Panel Side Panel



SP3018F

Dimensions (mm)



Package Contents

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

Items	Quantity
Switch	1 pcs
Quick Installation Guide	1 pcs



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Technical Support



Cloud Management



Company Website