### 8\*10/100Base-TX PoE + 1\*100Base-FX Industrial PoE Switch LT-IS3009FP-1FX8TX Series



#### Features:

- > 8\*10/100Base-TX RJ45 PoE ports, 1\*100Base-FX SFP(/SC/ST/FC optional) fiber port
- > DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Dip switch function: 1.Port isolation; 2. 250m long distance; 3. QoS; 4.PoE watchdog
- Support 9K Bytes Jumbo frame
- > Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- > IP40 fan-less and Din-rail hardware design
- > Operation temperature: -40  $^{\circ}$ C ~+75  $^{\circ}$ C

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#### Overview

The SmartByte LT-IS3009FP-1FX8TX series are unmanaged industrial grade PoE switches with 8-port 10/100Base-TX PoE and 1-port 100Base-FX fiber optical interface. They comply with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. Moreover, they are featuring with port isolation, 250m long distance transmission mode(1-8 ports) , QoS(1-2 ports) and PoE watchdog function, which all can be configured by the Dip switch on the top panel.

LT-IS3009FP-1FX8TX series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, such as wide range power input 44-57VDC, redundant power design with polarity reverse/over-voltage protection, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40  $^{\circ}$ C to 75  $^{\circ}$ C as well as high-level EMI/EMC capability and so on. They are the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications.

Model No.	LT-IS3009FP-1FX8TX			
Interface	Fiber port		Copper RJ45 ports	
	1	1 8		
Ethernet	8*10/100Base-TX PoE 1*100Base-FX SFP (SC/ST/FC	Coptional)		
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast 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			
Dip Switch	<ol> <li>Port Isolation</li> <li>250m long distance mode(1-8 ports)</li> <li>QoS(1-2 ports)</li> <li>PoE watchdog</li> </ol>			
LED Indicators	D(Dower indicator) Croop	Off: the device is power off or failed		
	P(Power indicator) Green	On: the device power on is normal		
		Off: total PoE usage < rated 50%		
	S(PoE usage indicator) Red	Blinking: rated 50% < total PoE usage < rated 90%		

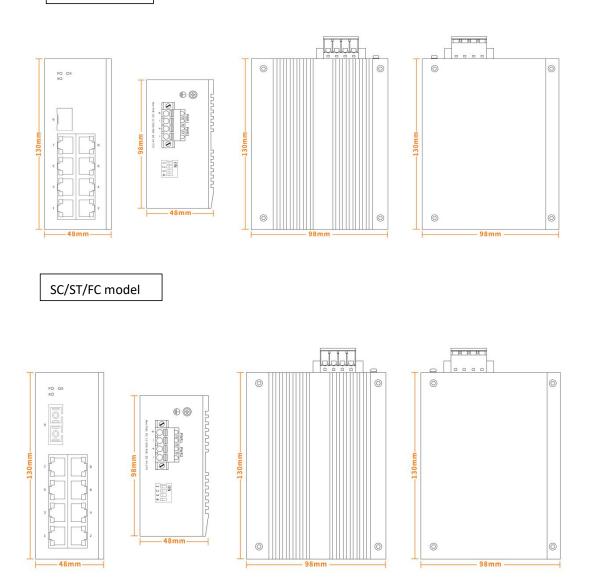
#### Technical specification

Input voltage       44-57VDC, redundant power input         Input current       5.6A Max         Total power consumption       Full loading without POE ≤5W PoE power budget ≤ 240W         Connector       Removable 4-pin terminal block         Reverse       polarity         protection       Support         Over-voltage protection       Support         Switching features       1.8G         Packet forwarding rate       2.67 Mpps         MAC address table       2K         VLAN       2K         Buffer       2kbits         Forwarding delay       100us         Jumbo Frame       Support 9Kbytes         MDX/MIDX       Support					
Image: Provide a serie of the seri		On: total PoE usage≥rated 90%			
1-8(Copper ports)         On: ports link up         On: PoE working           Blinking: data on TX/RX         Blinking: data on TX/RX         On: PoE working           9 ( Fiber port) Green         Off: ports link down         On: ports link up           Power parameters         On: ports link up         On: ports link up           Power parameters         On: ports link up         Blinking: data on TX/RX           Power parameters         44-57VDC, redundant power input         On: ports link up           Input voltage         44-57VDC, redundant power input         Secondary           Total power consumption         Full loading without POE s5W POE power budget s 240W         Secondary           Connector         Removable 4-pin terminal block         Secondary           Reverse polarity protection         Support         Support           Switching features         Support         Secondary           Switching capacity         1.8G         Secondary           Packet forwarding rate         2.67 Mpps         Secondary           MAC address table         2.67 Mpps         Secondary           Suffer         2.68 Mps         Secondary         Secondary           Support         Support         Secondary         Secondary           Support Support Support Support Suport Support Supp			Green indicators	Yellow indicators	
On: ports link up         On: POE working           Blinking: data on TX/RX         On: POE working           Power parameters         On: ports link down           Input voltage         44-57VDC, redundant power input           Input voltage         44-57VDC, redundant power input           Total power consumption         Full loading without POE SSW poE power budget \$240W           Connector         Removable 4-pin terminal block           Reverse polarity         Support           Over-voltage protection         Support           Switching capacity         1.8G           Packet forwardling rate         2.67 Mpps           MAC address table         2K           Suffer         2.61 Mps           MAC address table         Support           VLAN         2K           Buffer         2.00us           Jumbo Frame         Support           MDX/MIDX         Support		1-8(Copper ports)	Off: ports link down	Off: PoE not working	
Binking: data on TX/RX       Binking: data on TX/RX       Performation       9 ( Fiber port) Green       Off: ports link down       On: ports link up       Binking: data on TX/RX       Power parameters       Input voltage     44-57VDC, redundant power input       Input current     5.6A Max       Total power consumption     Full loading without POE <sw PoE power budget \$ 240W       Connector     Removable 4-pin terminal block       Reverse polarity protection     Support       Over-voltage protection     Support       Switching features     1.8G       Switching rapacity     1.8G       Packet forwarding rate     2.67 Mpps       MAC address table     2K       VLAN     2K       Buffer     2Kbits       Forwarding delay     1.00us       Jumbo Frame     Support 9Kbytes       MDX/MIDX     Support</sw 			On: ports link up	On: PoE working	
Power parameters     On: ports link up       Input voltage     44-57VDC, redundant power input       Input current     5.6A Max       Total power consumption     Full loading without POE <5W PoE power budget < 240W			Blinking: data on TX/RX		
Binking: data on TX/RX           Power parameters           Input voltage         44-57VDC, redundant power input           Input current         5.6A Max           Total power consumption         Full loading without POE <sw POE power budget ≤ 240W           Connector         Removable 4-pin terminal block           Reverse polarity         Support           Over-voltage protection         Support           Switching features            Switching capacity         1.8G           Packet forwarding rate         2.67 Mpps           MAC address table         2K           VLAN         2K           Buffer         2.Kbits           Forwarding delay            Jumbo Frame         Support 9Kbytes           MDX/MIDX         Support</sw 			Off: ports link down		
Power parameters         Input voltage       44-57VDC, redundant power input         Input current       5.6A Max         Total power consumption       Full loading without POE <sw POE power budget &lt; 240W</sw 		9 ( Fiber port) Green	On: ports link up		
Input voltage       44-57VDC, redundant power input         Input current       5.6A Max         Total power consumption       Full loading without POE ≤5W PoE power budget ≤ 240W         Connector       Removable 4-pin terminal block         Reverse       polarity         protection       Support         Over-voltage protection       Support         Switching features       1.8G         Packet forwarding rate       2.67 Mpps         MAC address table       2K         VLAN       2K         Buffer       2kbits         Forwarding delay       100us         Jumbo Frame       Support 9Kbytes         MDX/MIDX       Support			Blinking: data on TX/RX		
Input current       5.6A Max         Total power consumption       Full loading without POE <5W POE power budget < 240W	Power parameters				
Total power consumption       Full loading without POE <5W PoE power budget < 240W	Input voltage	44-57VDC, redundant power input			
PoE power budget ≤ 240W           Connector         Removable 4-pin terminal block           Reverse polarity protection         Support           Over-voltage protection         Support           Switching features         Support           Switching capacity         1.8G           Packet forwarding rate         2.67 Mpps           MAC address table         2K           VLAN         2K           Buffer         2Kbits           Forwarding delay         <100us	Input current	5.6A Max			
Reverse protectionpolaritysupportOver-voltage protectionSupportSwitching featuresSwitching capacity1.8GPacket forwarding rate2.67 MppsMAC address table2KVLAN2KBuffer2KbitsForwarding delay<100us	Total power consumption				
protection         Support           Over-voltage protection         Support           Switching features         Switching capacity           Switching capacity         1.8G           Packet forwarding rate         2.67 Mpps           MAC address table         2K           VLAN         2K           Buffer         2Kbits           Forwarding delay         <100us	Connector	Removable 4-pin terminal block			
Switching features         Switching capacity       1.8G         Packet forwarding rate       2.67 Mpps         MAC address table       2K         VLAN       2K         Buffer       2Kbits         Forwarding delay       <100us	Reverse polarity protection	Support			
Switching capacity1.8GPacket forwarding rate2.67 MppsMAC address table2KVLAN2KBuffer2KbitsForwarding delay<100us	Over-voltage protection	Support			
Packet forwarding rate2.67 MppsMAC address table2KVLAN2KBuffer2KbitsForwarding delay<100us	Switching features				
MAC address table2KVLAN2KBuffer2KbitsForwarding delay<100us	Switching capacity	1.8G			
VLAN2KBuffer2KbitsForwarding delay<100us	Packet forwarding rate	2.67 Mpps			
Buffer2KbitsForwarding delay<100us	MAC address table	2К			
Forwarding delay<100usJumbo FrameSupport 9KbytesMDX/MIDXSupportWatchdogSupport	VLAN	2К			
Jumbo Frame     Support 9Kbytes       MDX/MIDX     Support       Watchdog     Support	Buffer	2Kbits			
MDX/MIDX Support Watchdog Support	Forwarding delay	<100us			
Watchdog Support	Jumbo Frame	Support 9Kbytes			
	MDX/MIDX	Support			
Network Topology	Watchdog	Support			
	Network Topology				

Star topology	Support	
Bus topology	Support	
Tree Topology	Support	
Mechanical structure		
Case protection	IP40	
Installation method	Din-rail	
Dimension(W*D*H)mm	48*98*130mm	
Weight	0.70 kg	
Operating environment		
Operating temperature	-40°C~+75℃	
Storage/transportation temperature	-40°C~+85℃	
Relative humidity	5%~95% (non-condensing)	
	Surge protection of power: IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)	
	Surge protection of Ethernet ports: IEC 61000-4-5 Level 3 (4KV/2KV ) (10/700us)	
	DIP: IEC 61000-4-11 Level 3 (10V)	
Industrial Standard	ESD: IEC 61000-4-2 Level 4 (8K/15K)	
	Shock: IEC 60068-2-27	
	Free fall: IEC 60068-2-32	
	Vibration: IEC 60068-2-6	
Certification	CCC/CE/FCC/RoHS	
Warranty	5 years	

### Structure diagram

SFP model



### Order information

Model	Description
LT-IS3009FP-1FX8TX	10/100Base-TX to 100Base-FX unmanaged industrial PoE switch with 8*10/100Base-TX PoE ports and 1*100Base-FX SFP slot, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: $-40^{\circ}C \sim +75^{\circ}C$
LT-IS3009FP-1FX8TX-SC	10/100Base-TX to 100Base-FX unmanaged industrial PoE switch with 8*10/100Base-TX PoE ports and 1*100Base-FX SC port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40 °C ~+75 °C
LT-IS3009FP-1FX8TX-FC	10/100Base-TX to 100Base-FX unmanaged industrial PoE switch with 8*10/100Base-TX PoE ports and 1*100Base-FX FC port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: $-40^{\circ}C \sim +75^{\circ}C$
LT-IS3009FP-1FX8TX-ST	10/100Base-TX to 100Base-FX unmanaged industrial PoE switch with 8*10/100Base-TX PoE ports and 1*100Base-FX ST port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40 $^{\circ}C \sim$ +75 $^{\circ}C$