

8-Port 10/100Mbps Desktop Fast Ethernet Switch (Internal Power)



For easy home networking Switch solution, PLANET releases the new FSD-805 series wall mountable 10/100Mbps Fast Ethernet Switch which offers palm size and desktop installation with internal power supply.

- FSD-805SC: 8 + 1 Multi-mode 100FX Desktop Switch, up to 2km
- FSD-805S15: 8 + 1 Single mode 100FX Desktop Switch, up to 15km

With 8 independent ports and auto-negotiation capability, all the RJ-45 ports in the FSD-805SC and FSD-805S15 can be configured to data rate of 10/20Mbps or 100/200Mbps automatically. To meet the increasing bandwidth requirements for local area networks, the Switch provides non-blocking wire-speed performance and 1.6Gbps internal switching fabric. The PLANET FSD-805SC and FSD-805S15 are the ideal option to alleviate the bottleneck in client / server and peer-to-peer environments in a cost-effective way.

The PLANET FSD-805SC and FSD-805S15 provide one shared 100Base-FX optic-fiber SC interface with port 1, TP / Fiber port selection through the DIP Switch. They provide choice of multi-mode / single mode 100Base-FX SC interface and the fiber transmit distance can be 2km and 15km away for link to remote backbone.

All RJ-45 copper interfaces built in the FSD-805SC and FSD-805S15 support 10/100Mbps Auto-Negotiation for optimal speed detection through RJ-45 Category 5, 5e or 6 cables. With Auto-MDI/MDI-X feature support, they can detect the type of connection to any Ethernet device without the need of special straight or crossover cables.

The Flow Control function allows FSD-805 series Fast Ethernet Switch support routers and servers to directly connect to this Switch for fast and reliable data transfer.

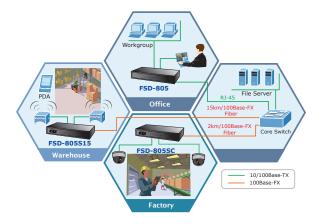
KEY FEATURES

- Complies with the IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet standard
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Support 2K MAC address table
- Support to handle up to 1522 bytes packet size
- LED indicators for simple diagnostics and management
- Hardware based 10/100Mbps auto-negotiation
- Full / Half-Duplex capability on every TX ports, total bandwidth is up to 200Mbps per port
- IEEE 802.3x PAUSE frame flow control for full duplex operation
- Backpressure flow control for half duplex operation
- One shared 100Base-FX interface for up to 2km (multi-mode fiber 50µm/125µm) on FSD-805SC
- One shared 100Base-FX interface for up to 15km (single-mode fiber 9µm/125µm) on FSD-805S15
- Automatic source address learning and aging
- Compact size, wall-mountable design
- Internal power adapter 100-240V AC, 50/60Hz, 0.2A
- FCC, CE class A compliant

APPLICATIONS

Ideal Switch for Home / SOHO and Space-limited locations

With 8 10/100Mbps Fast Ethernet ports, the FSD-805SC and FSD-805S15 provide a cost-effective and high-performance solution for Home / SOHO applications. In multiple applications, the advanced functionality of the FSD-805SC and FSD-805S15 eliminate traditional issues associated with current Ethernet environment. With multi-mode / single mode 100Base-FX SC interface, the FSD-805SC and FSD-805S15 fiber transmit distance can be 2km and 15km away for uplink to core Switch or backbone in a small office, factory or warehouse Ethernet connection.





Model FSD-805SC FSD-805S15 Hardware Specification 10/100Base-TX Ports 8 8 100Base-TX Ports 8 8 100Base-TX Port 1 (Shared with Port-1) 1 (Shared w	Product	8-Port 10/100Mbps Desktop Fast Ethernet	Switch (Internal Power)
10/100Base-TX Ports	Model	FSD-805SC	FSD-805S15
1 (Shared with Port-1)	Hardware Specification		
Fiber Port Type SC / Multi-mode SC / Single mode Cable Distance 2km 15km Optical Frequence 1300nm 1310nm Launch Power (dBm) Max:-14 Min: -19.0 Max:-7 Maximum Input Power -14 -8 Dimensions (W x D x H) 191 mm x 85 mm x 26 mm Weight 325g Power Requirement Internal power 100-240V AC, 0.2A Power Consumption / Dissipation Store-and-Forward Switch Specification Store-and-Forward Address Table 2K entries Share data Buffer 1Mbit on-chip frame buffer Flow Control Back pressure for half duplex Switch fabric 1.6Gbps Throughput (packet per second) 10.9Mpps 10/100Base-TX:	10/100Base-TX Ports	8	8
Cable Distance 2km 1300mm 1310mm Launch Power (dBm) Max:14 Min: -19.0 Max:14 Min: -19.0 Min: -20 Receive Senstivity -34.5 -28 Maximum Input Power -14 Dimensions (W X D x H) 191 mm x 85 mm x 26 mm Weight 325g Power Requirement Internal power 100-240V AC, 0.2A Power Consumption / Dissipation Switch Specification Switch Processing Scheme Store-and-Forward Address Table 2K entries Flow Control Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps Throughput (packet per second) 11.9Mpps 10/100Base-TX: • 2-Pair UTP Cat. 3.4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) Network cables 100Base-FX: • Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). • Single-mode optic fiber 9/125µm (15km, max.) Standards Compliance IEEE 802.3x Fall-duplex flow control Temperature Operating: 0-50 Degree C Humidity Operating Operating: 0-50 Degree C Storage: -40-70 Degree C Humidity Operating Operating: 0-50 Degree C Storage: -40-70 Degree C Humidity Operating Operating: 0-50 Degree C Humidity Operating Operating: 0-50 Degree C Storage: -40-70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	100Base-FX SC Port	1 (Shared with Port-1)	1 (Shared with Port-1)
Optical Frequence 1300nm 1310nm Launch Power (dBm) Max:-14 Min: -19.0 Min: -20 Receive Senstivity -34.528 Maximum Input Power -148 Dimensions (W x D x H) 191 mm x 85 mm x 26 mm Weight 325g Power Requirement Internal power 100-240V AC, 0.2A Power Consumption / Dissipation 4.3 watts / 14.6 BTU Switch Specification Switch Processing Scheme Store-and-Forward Address Table 2K entries Share data Buffer 1Mbit on-chip frame buffer Flow Control Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.66bps Throughput (packet per second) 10/100Base-TX: 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 1008ase-FX: Single-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). Single-mode optic fiber 9/125µm (15km, max.) Standards Compliance IEEE 802.3 & Fall-duplex flow control Temperature Operating: 0-50 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Fiber Port Type	SC / Multi-mode	SC / Singel mode
Launch Power (dBm) Max:-14 Min: -19.0 Receive Senstivity -34.5 -28 Maximum Input Power -14 -19 In mn x 85 mm x 26 mm Weight 325g Power Requirement Internal power 100-240V AC, 0.2A Power Consumption / Dissipation Switch Specification Switch Processing Scheme Store-and-Forward Address Table Share data Buffer Flow Control Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps Throughput (packet per second) 10/100Base-TX: 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 100Base-FX: 4 Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). 5 Single-mode optic fiber 9/125µm (15km, max.) Standards Compliance EEE 802.3x Falst Ethernet: 100Base-TX and 100Base-FX IEEE 802.3x Falst Ethernet: 100Base-TX and 100Base-FX IEEE 802.3x Falst Ethernet: 100Base-TX and 100Base-FX IEEE 802.3x Fall-duplex flow control Operating: 0-50 Degree C Storage: 40-70 Degree C Storage: 40-70 Degree C Humidity Operating Operating: 5% to 90% (Non-condensing)	Cable Distance	2km	15km
Receive Senstivity -34,5 -28 Maximum Input Power -14 -8 Dimensions (W x D x H) 191 mm x 85 mm x 26 mm Weight 325g Power Requirement Internal power 100-240V AC, 0.2A Power Consumption / Dissipation	Optical Frequence	1300nm	1310nm
Maximum Input Power Dimensions (W x D x H) Dissipation Dissipation Switch Specification Switch Specification Switch Processing Scheme Store-and-Forward Address Table Dimensions (W x D x H) Dissipation Switch Processing Scheme Store-and-Forward Address Table Dimensions (W x D x H) Dime	Launch Power (dBm)		
Dimensions (W x D x H) 191 mm x 85 mm x 26 mm Weight 325g Power Requirement Internal power 100-240V AC, 0.2A Power Consumption / Dissipation Switch Specification Switch Processing Scheme Store-and-Forward Address Table 2K entries Share data Buffer 1Mbit on-chip frame buffer Flow Control Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps Throughput (packet per second) 10/100Base-TX: 2 - 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) Network cables 100Base-FX: 4 Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). Standards Conformance IEEE 802.3x Fault-duplex flow control Coperating: 0~50 Degree C Storage: 40~70 Degree C Storage: 40~70 Degree C Storage: 40~70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Receive Senstivity	-34.5	-28
Weight 325g Power Requirement Internal power 100-240V AC, 0.2A Power Consumption / Dissipation 4.3 watts / 14.6 BTU Switch Specification Switch Processing Scheme Store-and-Forward Address Table 2K entries Share data Buffer 1Mbit on-chip frame buffer Back pressure for half duplex [EEE 802.3x Pause Frame for full duplex] Switch fabric 1.6Gbps Throughput (packet per second) 10/100Base-TX: • 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) Network cables 100Base-FX: • Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). • Single-mode optic fiber 9/125µm (15km, max.) Standards Conformance IEEE 802.3x Ethernet Standards Compliance IEEE 802.3x Full-duplex flow control Temperature Operating: 0-50 Degree C Storage: -40-70 Degree C Storage: -40-70 Degree C Storage: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Maximum Input Power	-14	-8
Power Requirement Power Consumption / Dissipation 4.3 watts / 14.6 BTU Switch Specification Switch Processing Scheme Store-and-Forward Address Table Share data Buffer IMbit on-chip frame buffer Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps Throughput (packet per second) 10/100Base-TX:	Dimensions (WxDxH)	191 mm x 85 mm x 26 mm	
Power Consumption / Dissipation Switch Specification Switch Processing Scheme Store-and-Forward Address Table 2K entries Share data Buffer IMbit on-chip frame buffer Flow Control Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex IEEE 802.3x Pause Frame for full duplex Switch fabric Throughput (packet per second) 10/100Base-TX: 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 100Base-TX: 1	Weight	325g	
Dissipation Switch Specification Switch Processing Scheme Store-and-Forward Address Table Share data Buffer IMbit on-chip frame buffer Flow Control Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps Throughput (packet per second) 10/100Base-TX: • 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 100Base-FX: • Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). • Single-mode optic fiber 9/125µm (15km, max.) Standards Compliance IEEE 802.3 Ethernet IEEE 802.3 Fath Ethernet: 100Base-TX and 100Base-FX IEEE 802.3x Full-duplex flow control Temperature Operating: 0~50 Degree C Storage: ~40~70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Power Requirement	Internal power 100-240V AC, 0.2A	
Switch Processing Scheme Store-and-Forward Address Table 2K entries Share data Buffer 1Mbit on-chip frame buffer Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps Throughput (packet per second) 10/100Base-TX: • 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) Network cables 100Base-FX: • Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). • Single-mode optic fiber 9/125µm (15km, max.) Standards Conformance IEEE 802.3 Ethernet Standards Compliance Operating: 0-50 Degree C Storage: -40-70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	•	4.3 watts / 14.6 BTU	
Address Table 2K entries Share data Buffer 1Mbit on-chip frame buffer Flow Control Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps Throughput (packet per second) 11.9Mpps 10/100Base-TX:	Switch Specification		
Share data Buffer IMbit on-chip frame buffer Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps Throughput (packet per second) 10/100Base-TX: • 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 100Base-FX: • Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). • Single-mode optic fiber 9/125µm (15km, max.) Standards Conformance IEEE 802.3 Ethernet Standards Compliance IEEE 802.3x Full-duplex flow control Operating: 0~50 Degree C Storage: ~40~70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Switch Processing Scheme	Store-and-Forward	
Flow Control Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex Switch fabric 1.6Gbps 11.9Mpps 10/100Base-TX: • 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) Network cables 100Base-FX: • Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.) • Single-mode optic fiber 9/125µm (15km, max.) Standards Conformance IEEE 802.3 Ethernet Standards Compliance IEEE 802.3x Full-duplex flow control Operating: 0~50 Degree C Storage: ~40~70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Address Table	2K entries	
Switch fabric 1.6Gbps 11.9Mpps 10/100Base-TX: • 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 100Base-FX: • Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). • Single-mode optic fiber 9/125µm (15km, max.) 100Base-FX	Share data Buffer	1Mbit on-chip frame buffer	
Throughput (packet per second) 11.9Mpps 10/100Base-TX: • 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 100Base-FX: • Multi-mode optic fiber 62.5/125μm, 50/125μm(2km, max.). • Single-mode optic fiber 9/125μm (15km, max.) Standards Conformance IEEE 802.3 Ethernet Standards Compliance IEEE 802.3u Fast Ethernet: 100Base-TX and 100Base-FX IEEE 802.3x Full-duplex flow control Operating: 0~50 Degree C Storage: -40~70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Flow Control		
second) 11.9Mpps 10/100Base-TX: • 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 100Base-FX: • Multi-mode optic fiber 62.5/125μm, 50/125μm(2km, max.). • Single-mode optic fiber 9/125μm (15km, max.) Standards Conformance IEEE 802.3 Ethernet Standards Compliance IEEE 802.3u Fast Ethernet: 100Base-TX and 100Base-FX IEEE 802.3x Full-duplex flow control Operating: 0~50 Degree C Storage: -40~70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Switch fabric	1.6Gbps	
	5	11.9Mpps	
IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet: 100Base-TX and 100Base-FX IEEE 802.3x Full-duplex flow control Temperature Operating: 0~50 Degree C Storage: -40~70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Network cables	 2-Pair UTP Cat. 3,4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.) 100Base-FX: Multi-mode optic fiber 62.5/125µm, 50/125µm(2km, max.). 	
Standards Compliance IEEE 802.3u Fast Ethernet: 100Base-TX and 100Base-FX IEEE 802.3x Full-duplex flow control Operating: 0~50 Degree C Storage: -40~70 Degree C Humidity Operating Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Standards Conformance		
Humidity Operating Storage: -40~70 Degree C Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)	Standards Compliance	IEEE 802.3u Fast Ethernet: 100Base-TX and 100Base-FX	
	Temperature	· · · · · · · · · · · · · · · · · · ·	
Regulation Compliance FCC Part 15 Class A, CE	Humidity Operating		
	Regulation Compliance		

FSD-805SC	8-Port 10/100Mbps Desktop Fast Ethernet Switch with 1-Port shared 100Base-FX (SC, Multi-mode~2km)
FSD-805S15	8-Port 10/100Mbps Desktop Fast Ethernet Switch with 1-Port shared 100Base-FX(SC, Single-mode~15km)

RELATED PRODUCTS

8-Port 10/100Mbps Desktop Fast Ethernet Switch (8 RJ-45, 100m) FSD-805