

# 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.

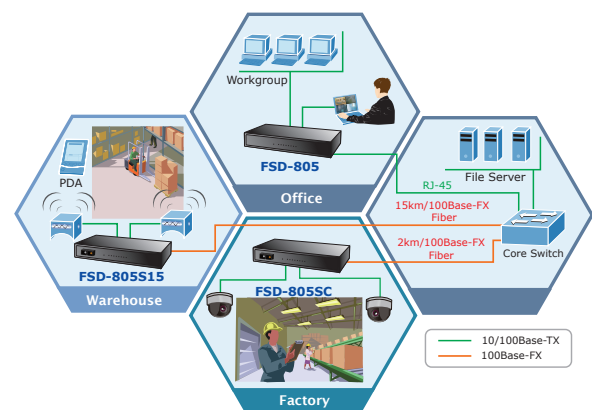
## KEY FEATURES

- 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.



**SPECIFICATION**

Product	8-Port 10/100Mbps Desktop Fast Ethernet Switch ( Internal Power)	
Model	FSD-805SC	FSD-805S15
<b>Hardware Specification</b>		
10/100Base-TX Ports	8	8
100Base-FX SC Port	1 (Shared with Port-1)	1 (Shared with Port-1)
Fiber Port Type	SC / Multi-mode	SC / Single mode
Cable Distance	2km	15km
Optical Frequency	1300nm	1310nm
Launch Power (dBm)	Max:-14 Min: -19.0	Max:-7 Min: -20
Receive Sensitivity	-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	4.3 watts / 14.6 BTU	
<b>Switch Specification</b>		
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)	11.9Mpps	
Network cables	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.)	
<b>Standards Conformance</b>		
Standards Compliance	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)	
Regulation Compliance	FCC Part 15 Class A, CE	

**ORDERING INFORMATION**

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**

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