Product Specification

8-Port 10/100Mbps Fast Ethernet Switch

FSD-803

Version 3.0

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Change History:

Revision:	Date:	Author:	Change List
Version 3.0	2010/5/25	Marc Liao	Initial Release

Author:	Marc Liao	**Editor:**	Marc Liao
Reviewed By:	Kent Kang	**Approved By:**	Tom Shih

1. PRODUCT DESCRIPTION

PLANET Fast Ethernet Switch FSD-803 provides business and home users a cost-effective integrated system of small-office / home-office networking. It is with compact-sized metal design and just right for the network of 10 to 50 users.

The FSD-803 is a highly reliable network switch ideal for bridging Ethernet to Fast Ethernet workgroups or networks. It has 2K MAC Address table and provides 448K bits buffer memory. The wire-speed packets transfer capability is provided to avoid packet loss. All RJ-45 copper interfaces in the FSD-803 support 10/100Mbps Auto-Negotiation for optimal speed detection through RJ-45 Category 5 or 5e cables. It also supports Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables. Furthermore, the Flow Control function by the FSD-803 supports routers and Servers to directly connect to it for fast and reliable data transfer.

To segment the network and ease the network traffic, the 8-Port 10/100Mbps Switch is the ideal backbone for SOHO switched networks. Moreover, for simple troubleshooting, the FSD-803 provides array LED indicators so the network status can be monitored at a glance.

Product Positioning

Ideal Switch for Home / SOHO Network

With 8 10/100Mbps Fast Ethernet ports, the FSD-803 provides a cost-effective and high-performance solution for Home and SOHO network applications.

2. PRODUCT FEATURES

- Complies with IEEE 802.3, 10Base-T, IEEE 802.3u 100Base-TX Ethernet standards
- 8 10/100Mbps Fast Ethernet ports
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware based 10/100Mbps, half / full duplex , flow control and auto-negotiation
- IEEE 802.3x flow control for full duplex operation and Backpressure for half duplex operation
- Integrated address look-up engine, supports 2K absolute MAC addresses
- 448K bits packet buffer memory
- One power on/off button for energy saving
- Automatic address learning and address aging
- Supports Auto MDI/MDI-X function
- Supports CSMA/CD protocol
- External power adapter 12V 0.5A
- FCC, CE class A compliant

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

Switch ASIC: IC Plus IP178D x1

3.2 FUNCTION SPECIFICATION

Model	FSD-803
Hardware Specification	
10/100Base-TX Ports	8
LED Display	One for Power, One for Link / Act per port
Material	Metal case
Power switch	One power on/off button
Switch Specification	
Switch Processing Scheme	Store-and-Forward
Address Table	2K
Packet buffer memory	448K bits
Flow Control	Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex
Switch Fabric	1.6Gbps
Throughput (packet per second)	1.19Mpps
Standard Conformance	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100 Base-TX Fast Ethernet IEEE 802.3x Full-duplex Flow Control

3.3 PHYSICAL SPECIFICATIONS:

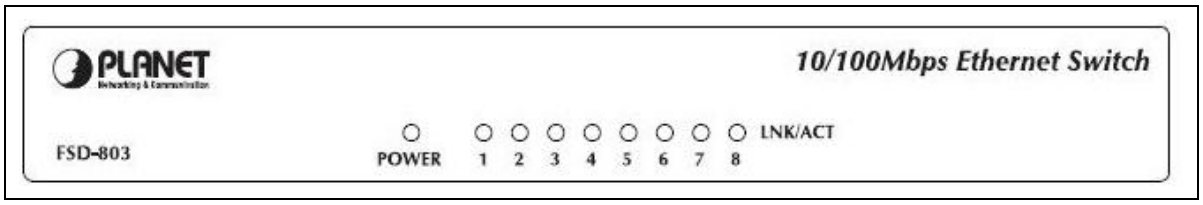
Dimensions:

160 x 80 x 28 mm (W x D x H)

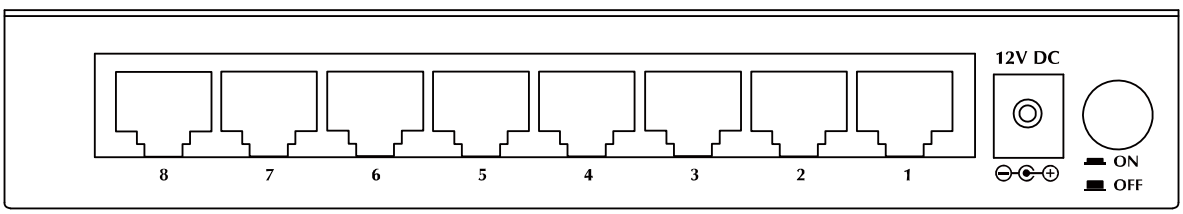
Weight:

339g

Front Panel:



Rear Panel:



LED Definition

System

LED	Color	Function
PWR	Green	Lights to indicate that the Switch has power.

Per 10/100Mbps port

LED	Color	Function
LNK/ACT	Green	Lights to indicate the link through that port is successfully established. Blink: indicate that the Switch is actively sending or receiving data over that port.

3.4 ENVIRONMENTAL SPECIFICATION

Operating:

Temperature: 0°C ~ 50 Degree C

Relative Humidity: 5% ~ 90% (non-condensing)

Storage:

Temperature: -10°C ~ 70 Degree C

Relative Humidity: 5% ~ 90% (non-condensing)

3.5 ELECTRICAL SPECIFICATION

Input Voltage: DC 12V, 500mA

Power consumption: 4.3 Watts / 14.6 BTU

3.6 REGULATORY COMPLIANCE

FCC Part 15 Class A, CE

3.7 REALIABILITY

MTBF > 50,000 hrs @ 25 Decree C

3.8 BASIC PACKAGING

- F SD-803 x1
- User' s Manual x1
- AC-to-DC Power Adapter x 1
- Rubber Feet x 4

3.9 PACKING DIMENSION

Dimension: 192mm x 142mm x 85mm (W x D x H)

Weight: 634 g (Gross Weight)

Unit per carton: 15pcs in one carton