

FS400

4 Port Ethernet Switch



Fiber Uplink Port



Copper Uplink Port

INTELLIGENT & MANAGEABLE ETHERNET SWITCH

Shyam's Ethernet Switch FS400 Series of intelligent and manageable Layer-2 Switches are designed for indoor applications with multiple ports for home and SOHO use. Flexible port configurations handle Voice, Video, Data and many more services in one small box.

FEATURES

- **Smart Negotiations:** Auto-negotiation over connectivity for 10/100 Mbps accelerates overall network performance, eliminating the need for manual switching, and also offers flexibility to adapt for slower connections.
- **Bandwidth Control for Ingress/Egress:** Shyam's FS400 has support to configure bandwidth of each port to different values on both Ingress and Egress. This feature enables users to configure different bandwidths to different end users.
- **Remote Management Feature:** Remote access of the FS400 from distant locations allows network administrators' easy maintenance and debugging of the network. Industrial standard CLI/GUI is provided for this purpose.
- **Diversified Quality of Service Policies:** Quality of service (QoS) is an advanced traffic prioritization feature that preserves network performance as the amount of traffic increases, enabling you to assign various grades of service to different types of traffic.

HIGHLIGHTS

- Manageable Switch (Local and Remote)
- Simplified Installation
- Remote Firmware Upgrade
- PoE Support
- QoS (IP/Port/DSCP/VLAN Priority)
- IGMP
- VLAN
- Bandwidth Control in Multiple of 64 Kbps
- DHCP Client

S. NO.	MODEL NO.	PRODUCT DESCRIPTION
1.	FS-4C-1F-S1310-20K	Single Fiber F-1310, 20Km
2.	FS-4C-1F-S1310-20K-P	Single Fiber F-1310, 20Km, PSE Device (Provide PoE on 4 Copper Ports)
3.	FS-4C-1F-S1550-20K	Single Fiber F-1550, 20 Km
4.	FS-4C-1F-S1550-20K-P	Single Fiber F-1550, 20 Km, PSE Device (Provide PoE on 4 Copper Ports)
5.	FS-4C-1C	Copper
6.	FS-4C-1C-P	Copper, PSE Device (Provide PoE on 4 Copper Downlink Ports)

FS400 - 4 Port Ethernet Switch

SYSTEM FEATURES

Hardware	<ul style="list-style-type: none"> ▪ Switch Structure: 100 Mbps (Full Duplex) on 5 Ports (Ethernet/SFP Options) ▪ 512KB Internal Flash Memory ▪ Serial Port Access for Configuration ▪ 4 Hardware Queues per Port ▪ Smart Negotiations ▪ Auto-MDI/MDIX ▪ Hardware Reset / Factory Restore Button ▪ Fiber Wavelength of 1310/1550 nm
Layer 2 Switching	<ul style="list-style-type: none"> ▪ 2,000 MAC Address Table Size, 16 Entry CAM ▪ Port-Based VLANs (802.1D, 802.1Q) ▪ VLAN Tagging (802.1Q) ▪ 16 Entry VLAN Table ▪ Port Based VLAN ▪ Port and Protocol Based VLAN ▪ VLAN Format Supports: Untagged In/Out, Tagged In/Out, Tagged/Untagged int, VLAN Tagged In/Out ▪ Non Head of Line Blocking Forwarding ▪ IEEE 802.3x Flow Control and Back Pressure
Mirroring	<ul style="list-style-type: none"> ▪ Supports Port Based Mirroring on Both Receive and Transmit
Storm Control	<ul style="list-style-type: none"> ▪ PPS-Based Broadcast/Multicast/Unicast Storm Control
DHCP	<ul style="list-style-type: none"> ▪ DHCP Client
Management Layer	<ul style="list-style-type: none"> ▪ Centralized Support Configuration through CLI ▪ Centralized Support Configuration through GUI (HTTP) ▪ Default IP Address ▪ IGMP v1/v2 ▪ Remote Configuration through Telnet ▪ Configuration through Console Port ▪ Username/Password Based Access Control
Loading and Upgrading	<ul style="list-style-type: none"> ▪ Supports Loading and Upgrade through Trivial File Transfer Protocol (TFTP) ▪ Failsafe Firmware Upgrades with Active and Passive Firmware Images ▪ User Configurable Selection of Active or Passive Firmware

SYSTEM FEATURES

Quality of Service (QoS)	<ul style="list-style-type: none"> ▪ Packet Classification based on 802.1p, Port, IP and DSCP Markings ▪ VLAN Priority Re-Marking ▪ Weighted Round Robin (WRR) or Strict Priority (SP) Queuing for Queue Servicing ▪ Broadcast/Multicast Packet Storm Control ▪ Ingress Port Bandwidth Control, in 64 Kbps Steps up to 100 Mbps Maximum ▪ Egress Port Bandwidth Control, in 64 Kbps Steps up to 100 Mbps Maximum
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TECHNICAL SPECIFICATIONS

Dimensions (H x W x D)	38 x 165 x 127 mm
Fiber Port	100 Base-X
Copper Port	10/100 Base-T
Weight	0.4 Kg
Electrical	
Input Voltage	12V DC
Input Power Consumption	1.3 W Maximum
Acoustic Noise	Noise Level of 0 dB
Environmental	
Operating Temperature	0° to 60° C (32° to 140° F)
Storage Temperature	-40° to 70° C (-40° to 158° F)
Relative Humidity	5 to 95% Maximum Relative Humidity (Non-Condensing)
RoHS Compliance	RoHS Compliant to the 6/6 Compliance Standard
PoE Specifications	
Type	Custom PoE
Max Power Consumption	80 Watts
Voltage	24/48 Volts

FS400 - 4 Port Ethernet Switch

MINIMUM REQUIREMENTS

- PC with 200 MHz or Faster Processor
- 128 MB RAM Recommended
- Ethernet or Gigabit Network Adapter
- Cat5e Ethernet Network Cable

PACKAGE CONTENTS

- Operational Manual
- Power Supply Adapter with Cord
- Console Cable

CERTIFICATIONS

- CISPR 22, Class A
- CISPR 24, Class A
- EN61000-3-2, EN61000-3-3
- IEC 60950, CB Report and Certificate
- UL 60950
- EN 60950
- UL-94-V1 Flammability Requirements for PC Board
- NOM-019



NETWORK PROTOCOL & STANDARDS COMPATIBILITY

- IEEE 802.3 10BASE-T (ISO/IEC 8802-3, Clause 14)
- IEEE 802.3u 100BASE-TX (ISO/IEC 8802-3, Clause 25)
- IEEE 802.3u Auto Negotiation on Twisted Pair (ISO/IEC 8802-3, Clause 28)
- IEEE 802.3x (Flow Control)
- IEEE 802.1d MAC Bridges (ISO/IEC 10038)
- IEEE 802.1Q (VLAN)
- IEEE 802.1p (Prioritizing)

ABOUT SHYAM NETWORKS LIMITED

Shyam Networks provides state-of-the-art networking and security solutions for diverse corporate enterprises, governments, educational institutions, offices and residences. From high end enterprise network solutions and wireless broadband connectivity to simple broadband access for homes, we ensure speed, capacity and range for both outdoor and indoor applications. We understand your networking needs as they evolve in a dynamic environment and manage them with cost effective, innovative answers.

Shyam Networks offers end-to-end solutions for homeland security, industrial security, and mission critical, sensitive sectors. We also offer a range of products that bring you an enhanced internet experience, in dense urban locations or remote rural areas where power and infrastructure are unreliable. Shyam Networks has networking solutions to connect subscribers in even the most challenging environments.

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