Smart Switch

SH-1600VF + EM-1SC/ST

SH-1600VF

16-Port 10/100M TP Switch + 1 Slot for 100Base-FX(SC/ST) module Switch

Key Features

- Conforms to IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX standards
- Provides 16 10/100Mbps auto MDI/MDIX RJ-45 ports for auto TX/RX hot swap
- Provides Non-Blocking 16 ports for full wire speed access
- Supports store and forward switching method
- Supports port based VLAN
- Supports port Trunks
- Conforms to IEEE 802.3x back pressure in half-duplex and flow control in full-duplex operation mode
- Supports one expansion fiber slide-in module for optional
- Source address learning and aging function
- Supports Fiber Module

Overview

SH-1600VF is designed for easy installation and high performance in an environment where traffic and the number of users on the network increase continuously. What makes the 16-Port 10/100Mbps Smart Switch outstanding from the followers is its built-in VLAN, Trunk and Fiber configuration. With VLAN, stations in the same LAN segment can be grouped into different network segment. The goal of VLANs is to allow for complete mobility of workstation placement, yet keeping broadcast traffic to a minimum. When enabling VLAN function, the workstation can only communicate with other workstations that are in the same VLAN group.

With Trunk, the backbone bandwidth can be increased to advance the network performance by easing and smoothing traffic load at peak hours. Small businesses and corporate branch offices can take full advantage of 100Mbps Fast Ethernet performance and preserve existing desktop investment with no changes required to PCs, NICs, cabling, drivers, or PC configurations.

Technical Specifications

- **Standards:**
  - IEEE 802.3 10BASE-T Ethernet
  - IEEE 802.3u 100BASE-TX Fast Ethernet
  - IEEE 802.3x Flow control for Full-Duplex
- **Networking Interface:** 16 10/100 Mbps RJ-45 ports
- **Uplink Interface:** Each port support auto-crossover
- **Cable:**
  - 10BASE-T: UTP Cat.3, 4, 5 or up
  - 100BASE-TX: UTP Cat.5 or up
  - 100BASE-FX
    - multi-mode 50/125,62.5/125μm
    - single-mode 8/125,9/125μm
- **Transmission:**
  - Mode: Full/Half-Duplex (Auto-sensing)
  - Speed: 10/100Mbps for TP port
  - Method: Store and Forward
- **MAC address:** 8K
- **Buffer Memory:** 1.5M
- **Backplane:** 4.2Gbps
- **Packet Forwarding / Filtering Rate:**
  - 10 Mbps: 14880 pps
  - 100 Mbps: 148800 pps
- **Flow Control:**
  - Full-Duplex:IEEE 802.3x
  - Half-Duplex:Back pressure
- **Diagnostic LED:**
  - Power
  - Link/Rx
  - 100
  - FDX/COL
- **Power Requirement:**
  - Voltage: AC90~264V
  - Frequency: 47~63Hz
  - Consumption: maximum 12W
- **Ambient Temperature:**
  - Operation: 0~45°C
  - Storage: 0~60°C
- **Humidity:**
  - Operation:10~90%
  - Storage:5~95%
- **Dimensions:** 440(W) x 44(H) x 148.5(D) mm
- **Weight:** 13.5kg (Net)
- **Certification:**
  - FCC Part 15 Class A
  - CE Mark

Smart Switch

With optional Fiber connectivity, SH-1600VF can be connected to a device at remote site with a distance up to 100Km. This feature makes SH-1600VF very suitable for the applications such as campus network to connect networks in different buildings and FTTP (Fiber To The Premise) to be deployed as a CPE site equipment.

Ordering Information
 • **Model**
SH-1600VF:
16-Port 10/100M TP + 1 Slot for 100Base FX(SC/ST) module Switch
 • **Optional Fiber Module**
EM-1SC: 100M multi mode, SC type transceiver
EM-1ST: 100M multi mode, ST type transceiver
EM-1SC.S20: 100M single mode, SC type transceiver, 20Km

SF-8SC

SH-1600VF

FE-1430TX

FE-1439D

File Server
FE-1430SC

Multi-mode Fiber Optic Cable
Category 5 UTP Cable