Fast Ethernet Switch

ES-1126C/D:

24-Port Web-Smart Fast Ethernet Switch with 2 SFP/GBIC Gigabit Dual Media Ports

Key Features

- **Standard compliance**
  - ---IEEE 802.3 10Base-T Ethernet (twisted-pair copper)
  - ---IEEE 802.3u 100Base-TX Ethernet (twisted-pair copper)
  - ---IEEE 802.3ab 1000Base-TX Ethernet (twisted-pair copper)
  - ---IEEE 802.3z 1000Base-TX/FX Ethernet
  - ---IEEE 802.3x flow control capability
  - ---ANSI/IEEE 802.3 auto-negotiation
  - ---IEEE 802.1q VLAN
- **Subscriber Interface**
  - ---1-24 10/100Mbps Fast Ethernet ports.
  - ---25,26 are Gigabit TP(SFP/GBIC) Fiber auto sense
  - ---Auto-Negotiation and Auto-MDIX
  - ---Backpressure flow control for half duplex.
  - ---802.3x flow control for full duplex.
  - ---Connector: 24 RJ-45 and 25,26 dual media (RJ-45/SFP or RJ-45/GBIC)
- **Performance**

  Switching capacity:
  - ---Non-blocking switch fabric supports up to 24FE+2GbE, ports
  - ---8 K MAC addresses
  - ---256k packet buffer and 128k control memory

  VLAN
  - ---Port-base VLAN
  - ---IEEE802.1q tag-base VLAN, 4094 max
  - ---Support Metro-mode to easily configure for MAN

  Qos
  - ---Port Based, 802.1p based QoS packet classification
  - ---Supports four level priority queues to prioritize in-bound and out-bound traffic

  Port Trunk
  - ---2 Fast Ethernet +1 Gigabit Ethernet groups
  - ---Per-group max 4 member
  - ---Mac-based trunking with automatic link fail-over

Benefits

- **QoS with Four Priority Queues**
  The QoS(Quality Of Service) feature provides four internal queues to support four different classifications of traffic. High priority packet streams experience less delay inside the switch, which supports lower latency for certain delay-sensitive traffic. The ES-1126C/D can classify the packet as one of the four priorities according to 802.1p priority tag. The QoS operate at full wire speed. The actual scheduling at each egress port can be based upon a strict priority, weighted round robin or a mix of both.

- **Port Mirroring**
  This mechanism helps track network errors or abnormal packet transmission without interrupting the flow of data. Allow ingress traffic to be monitored by a single port that is defined as mirror capture port. The mirror capture port can be any 10/100 port, 10/100/1000 port. Mirroring multiple ports is possible but can create congestion at the mirror capture port.

- **VLAN for Performance & Security**
  The VLAN feature in the switch offers the benefits of both security and performance. VLAN is used to isolate traffic between different users and thus provides better security. Limiting the broadcast traffic to within the same VLAN broadcast domain also enhances performance.

- **Isolated Group, Provide Secure for Certain Ports**
  The isolated group feature allows certain ports to be designated as protected. All other ports are non-isolated. Traffic between isolated group members are blocked. Traffic can only be sent from isolated group to non-isolated group.

- **Mac-based Trunking with Automatic Link Fail-over**
  Dynamic fail-over means packets will not get assigned to any trunk member port that has failed. If one of the ports were to fail, traffic will automatically get distributed to the remaining active ports.

- **Trap Event for Exception Management**
  We use SNMP Trap mechanism to inform supervisor to know the instant abnormal status of the switch.

- **2 Dual Media for Flexible Fiber Connection**
  25, 26 dual media port are provided for flexible fiber connection. You can select to install optional transceiver modules in these slots for short, medium or long distance fiber backbone attachment. Use of the SFP will disable their corresponding built-in 10/100/1000Base-T connections.

- **Build-in Web-base Management**
  Instead of using CLI interface, we provide a more convenient GUI for user. We just need to configure switch via Web Browser. It is more quickly for user to familiar the method to control switch on the basis of this design.

Fast Ethernet Switch

Broadcast Storm
----Multicast/Broadcast/Unknown-Unicast Storm suppression.
Port Mirroring
---Support 1: N RX port mirroring.
Isolated Group
---Provide one group allows certain ports to be designated as protected.
Rate Limit
---Ingress rate limit
---Egress rate limit

Overview

ES-1126C is a Web-Smart Fast Ethernet switch with 24 10/100Base-TX (RJ-45 connectors) and 2 Gigabit dual media (RJ-45/SFPor RJ-45/GBIC) ports .It is a standard switch that meets all IEEE 802.3 /u/x/z Gigabit, Fast Ethernet specifications. The switch can be managed through Web-based management unit, associated with web-based management, the network administrator can logon the switch to monitor, configure and control each port's activity. In addition, the switch implements the QoS (Quality of Service), VLAN, Trunk. It has a rich feature set suitable for streaming VoIP, video, and data traffics for multimedia applications.
In this switch, Port 25, 26 includes two types of media --- TP and SFP/GBIC Fiber (LC, BiDi-SC....; this port supports 10/100/1000Mbps TP or 1000Mbps SFP/GBIC Fiber with auto-detected function. 1000Mbps SFP/GBIC Fiber transceiver is used for high-speed connection expansion.

Technical Specifications

• **LED Description**

	LED	Color	Function
Global	POWER	Green	Lit when +5V power is coming up
Global	CPU ACT	Green	Blinks when CPU is activity
Port 1-24	LINK/ACT	Green	Lit when connection with remote device is good
			Blinks when any traffic is present
Port 1-24	100/10 Mbps	Green/L Ambert	Green when TP link on 100Mbps speed
			Lit Amber when TP link on 10Mbps speed
			Off when 10Mbps or no link occur
Port 25,26	SFP/ GBIC	Green	Lit when SFP/GBIC connection with remote device is good
			Blinks when any traffic is present

• **Hardware Spec**

Feature	Detailed Description
Voltage	100~240V
Frequency	50~60Hz
Consumption	30W
Ambient Temperature	0 to 50℃
Humidity	5% to 90%
Dimensions	44(H) x 442(W) x 209(D) mm
Safety	Comply with FCC Part 15 Class A & CE Mark Approval

Ordering Information

ES-1126C: 24-Port Web-Smart Fast Ethernet Switch with 2 SFP Gigabit Dual Media Ports
ES-1126D: 24-Port Web-Smart Fast Ethernet Switch with 2 GBIC Gigabit Dual Media Ports