optostar

26-Port Full Gigabit Managed PoE Switch

OP-S22E2C2X-M-AT

Shenzhen Optostar Optoelectronics Co., Ltd

2013. 06(Version 2)

Overview

This L2+ managed POE+ switch- OP-S22E2C2X-M-AT, provides a reliable infrastructure for your business network. It delivers more intelligent features you need to improve the availability of your critical business applications, protects your sensitive information, and optimizes your network bandwidth to deliver information and applications more effectively. It provides the ideal combination of affordability and capabilities for entry level networking of industrial, small business or enterprise application which demands industrial, surveillance, IP Phone, IP Camera or Wireless applications, thus helps you create a more efficient workforce.

In short, OP-S22E2C2X-M-AT provides security, performance, quality of services, central managed and other network control capabilities. Optimized and customized design and affordable pricing, it best fit for SMB or entry-level enterprise solution. It passed the rigorously testing to deliver excellent performance. As a managed switching solution, it also provides the flexibility to manage and prioritizes suitable-bandwidth traffic such as voice. In addition, it has advance security and gives you tight control to safeguard the network from unauthorized users.

Prduct Features

➢ 22-Port 10/100/1000Base-T + 2 Combo + 2 (100/1000M) SFP

➢ L2+ features provide better manageability, security, QoS, and performance.

➢ Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ management, IP Source Guard, ARP inspection, ACLs etc.

➢ Support spanning tree STP(802.1D) and RSTP(802.1W).

➢ Jumbo frames support up to 9.6K kilobtyes.

➢ Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.

➢ Support cable diagnosis

➢ Meet IEEE802.3af/at PoE standard. Supports per port PoE configuration function

➢ G.8032, support <50ms industrial quick ring protection

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Technical Parameter

Product	26-Port Full Gigabit Managed PoE Switch (OP-S22E2C2X-M-AT)	
Performance (Switching capacity and forwarding rate)		
Capacity in Millions of Packets per Second (mpps) (64-byte packets)		38.69Mpps
Switching Capacity in Gigabits per Second (Gbps)		52G
Interface		
Ports	22-Port 10/100/1000Base-T + 2x TP/SFP Combo + 2x (100/1000M) SFP slots	
Layer 2 Switching		
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w	
G.8032 ERPS	<50ms ring protection for industrial high reliable application	
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 13 groups ; Up to 16 ports per group	
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ; Port-based VLAN; 802.1Q tag-based VLAN	
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is not supported)	
Security		
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported	
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch	
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses	
DHCP Snooping	prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection	
IP Source Guard	Prevents datagram with spoofed addresses from being in the network	
ARP Inspection	Prevent ARP spoofing attacks and ARP	
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port	
ACLs	Support for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag	
Quality of Service		
Hardware Priority Queue	Support 8 hardware queues	
Scheduling	8 COS queues per port support strict priority and weighted round-robin (WRR)	

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Classification	Port based; 802.1p(PCP) VLAN priority based;
Rate Limiting	Ingress policer;egress shaping and rate control;per VLAN,per port and flow based
Management (Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog)	
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports configuration, system dashboard, maintenance, and monitoring
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading
Firmware upgrade	Web browser upgrade (HTTP/ HTTPs) and TFTP; Upgrade through console port as well
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to **N-1 (N is Switch's Ports)** ports can be mirrored to single destination port. A single session is supported.
Other management	Single IP management; HTTP/HTTPs; SSH; RADIUS; DHCP Client; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)
Green Ethernet	
Green and Energy-saving Ethernet (EEE)	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.
General	
Jumbo frames	Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table	Up to 8K MAC addresses.
Discovery	
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.

PoE

PoE Standard:	IEEE802.3af/at	PoE Port Power:	30W per PoE port, can be customized by Web management software
PoE Ports:	24 ports support PoE	Power Pin Type:	End-span (Mid-span optional)

Minimum Requirements

Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later; Category 5 Ethernet network cable;

TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network

Environmental   (preliminary)

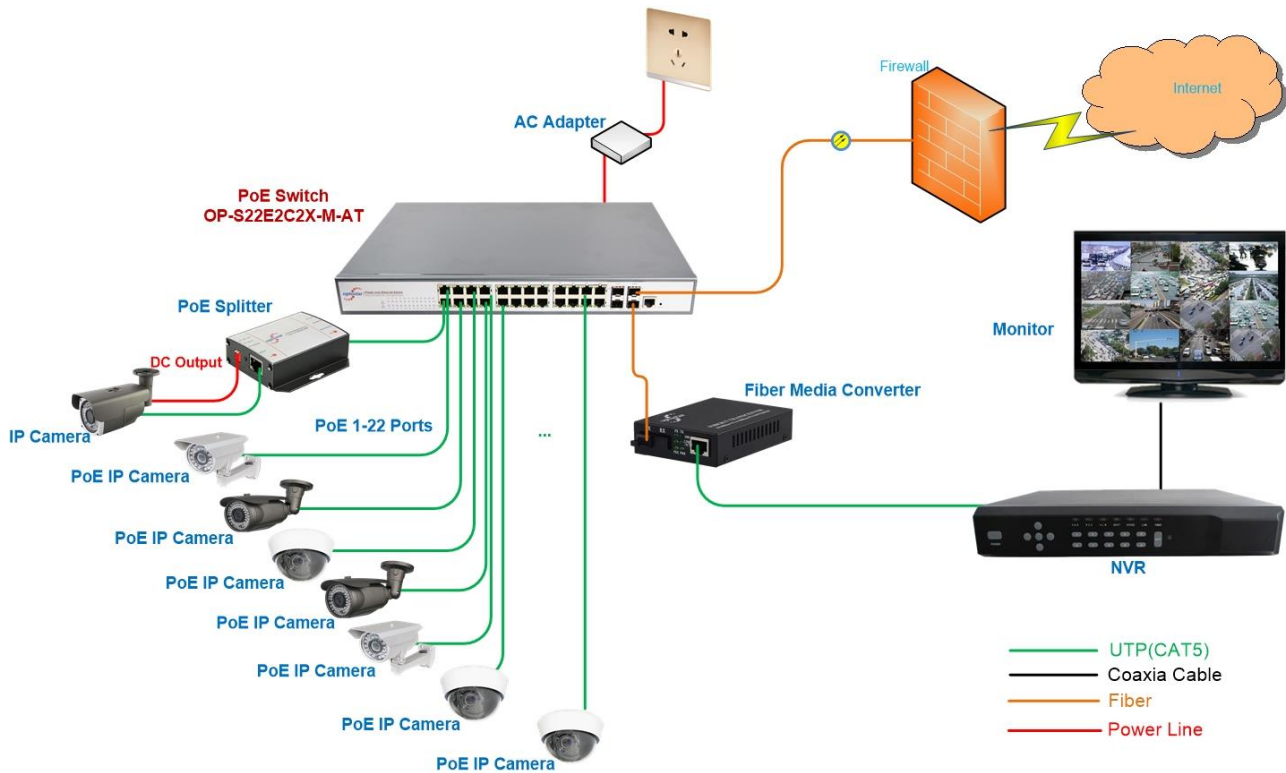| Dimensions	440x290x44.5mm

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| Working | Operating temperature: -20 to 55 ℃; Storage temperature: -20℃ to 75 ℃; |
| Environment | Operating humidity: 10% to 90% , relative, non-condensing |

Product Size

290mm

44.5mm

440mm

E

D

A   B   C

AC/IN 100-240V

F
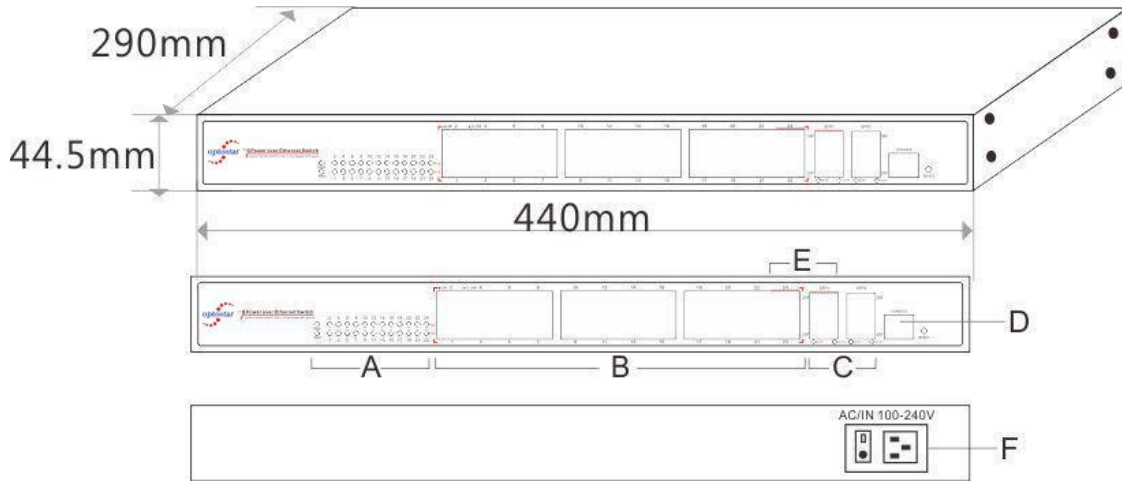
A. Working LED indicator
B. 24 Gigabit PoE Ports
C. 4 Gigabit SFP Ports

D. CONSOLE Port
E. 2 Gigabit TP/SFP Combo Ports
F. 100-240VAC,50/60Hz

Application

Firewall

Internet

AC Adapter

PoE Switch
OP-S22E2C2X-M-AT

Monitor

PoE Splitter

DC Output

Fiber Media Converter

IP Camera

PoE IP Camera

PoE 1-22 Ports

PoE IP Camera

NVR

PoE IP Camera

PoE IP Camera

PoE IP Camera

PoE IP Camera

PoE IP Camera

UTP(CAT5)
Coaxia Cable
Fiber
Power Line

Order Information

Model	Description
OP-S22E2C2X-M-AT	26-Port gigabit managed PoE switch, 22-Port 10/100/1000Base-T + 2 Combo +2 (100/1000M) SFP, port 1-24 supports PoE, IEEE 802.3af/at standard, 30W per PoE port and can be customized by Web management software. Total input power is 650W.
Notes: The even number port is end-span (1/2+, 3/6- line pair) power supply, the odd number port is mid-span(4/5+, 7/8- line pair) power supply	

Package include

No	Package List
1	26-Port Gigabit Managed PoE Switch (OP-S22E2C2X-M-AT)
2	Power Adapter
3	User Guide
4	Warranty Card

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTOSTAR before they become applicable to any particular order or contract. In accordance with the OPTOSTAR policy of continuous improvement specifications may change without notice.

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Contact OPTOSTAR

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