ES3002-4P-4T

8-Port Unmanaged Ethernet Switch with 4-Port PoE-at Injector

OVERVIEW

The IFS® line of economy series (ES) Ethernet switches provide Gigabit Ethernet (10/100/1000Mbps) transmission combined with a built-in 4-Port PoE injector providing up to 15.4w per port with a total PoE power budget of 55 watts.

The IFS ES3002-4P-4T is a cost-effective switch for a small IP video network. This switch is designed to provide non-blocking wire-speed performance and easy plug-and-play installation for desktop deployment of IP cameras, IP intercom, wireless access points (WAP) and other Ethernet applications.

This switch utilizes an internal power supply versus an external wall-mount transformer thus providing more reliable PoE performance and a higher total PoE power budget. In addition, the ES3002-4P-4T utilizes energy saving technology that reduces energy usage.

The ES3002-4P-1T incorporates two advanced Green Networking technologies:

- The Idle Mode Link Down Power Saving feature complies with the IEEE 802.3az Energy Efficient Ethernet (EEE) standard to automatically lower power for a given port when it is not connected.
- The Intelligent Power Scaling Technology actively determines the appropriate power level based on the cable length.

These two green features can reduce overall power consumption, which makes a significant contribution to energy savings.

STANDARD FEATURES

RJ-45 Ports

- Auto MDI/MDI-X
- Auto-negotiation
- 4-ports 10/100M/1000Mbps Ethernet (PoE-at)
- 4-ports 10/100/1000Mbps Ethernet (non-PoE)

High Performance Architecture

- Unmanaged plug and play installation requires no programming
- Store-and-Forward switching architecture with wire-speed filtering and forwarding rates
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x PAUSE frame-flow control (full-duplex)
- Integrated address-lookup engine supports 1K absolute MAC addresses
- Supports CSMA/CD Protocol
- Automatic source-address learning and aging
- Support to handle Jumbo Packets (9K Bytes ES3001-4P/4T only)

Power over Ethernet (PoE)

- Up to 4 IEEE 802.3af devices powered
- Complies with IEEE 802.3af Power over Ethernet End-Span PSE
- Supports up to 15.4 watts (13.75w per port @ full budget)
- Auto detect powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 328 ft. (100m)
- 55 watts total power budget

Designed for Efficient Operation

- Metal enclosure
- Built-in 65 watt power supply
- Advanced Green Networking technologies:
  - —Idle Mode Link Down Power Saving
  - —Intelligent Power Scaling technology
- Fanless design
- 0~50ºC operating environment

Warranty

- 3-year limited warranty

ES3002-4P-4T

8-Port Unmanaged Ethernet Switches
with 4-Port PoE-at Injector

Specifications

RJ45 Ports	
10/100Base-TX Connectors	RJ-45 (4) PoE and (4) non-PoE (8 total)
Port Configuration	Auto MDI/MDI-X
Port Speed	Auto-negotiate
Energy-saving Technology	Link down power saving Intelligently scales power based on cable length

PoE	
PoE Standard	IEEE 802.3at Power over Ethernet / PSE
PoE Power Supply Type	End-Span
PoE Power Output Per Port	53VDC / 600 mA (30w max.)
Powered Devices (PD) Class 1, 2 or 3	4
Powered Devices (PD) Class 4	2
Power Pin Assignment	1/2(+), 3/6(-)
Total PoE Power Budget	60 watts

Switch Performance	
Switch Architecture	Store-and-Forward
Switch Fabric (non-blocking)	16Gbps
Throughput (Packet per second)	11.9Mpps@64bytes
Address Table	4K entries
Maximum Frame Size	9K Bytes
Flow Control	Back pressure for Half-Duplex, IEEE 802.3x PAUSE Frame for Full-Duplex

LED Indicators	
Power	Power On
Ports 1-8	LNK/ACT
Ports 1-4	PoE In-use, LNK/ACT
PoE Max	On when Max PoE power is reached

Electrical & Mechanical	
Supply Voltage	AC 100 to 240V, 50/60Hz, 1.5A
Power Consumption	65 watts max./221 BTU max.
Enclosure	Metal
Dimensions (in/mm) (W x D x H)	8.48 x 5.23 x 1.65 in. (215.5 x 133 x 42mm)
Weight (lbs./kg)	1.96 lbs./0.89kg

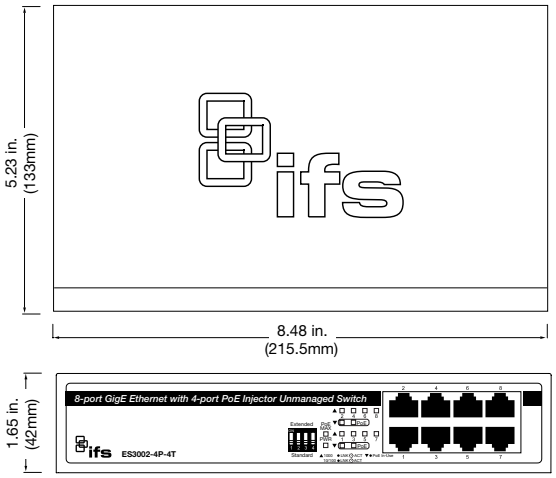
Environmental	
MTBF	> 100,000 Hrs @ 25°C
Operating Temperature	0°C~50°C
Storage Temperature	-40°C~70°C
Relative Humidity	0%~95% (non-condensing)

Standards Compliance	
IEEE Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab Gigabit Ethernet (ES3001 only) IEEE 802.3x Flow Control and Back pressure IEEE 802.3-at PoE (15.4w)
EIA/TIA-568 Standards	100-ohm UTP Cat. 5 or better (100meters, max.)
Regulation	FCC Part 15 Class A, CE

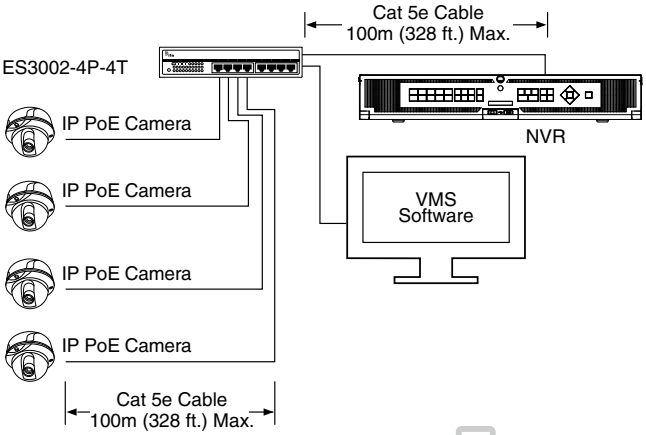
Ordering Information

ES3002-4P-4T	8-Port Unmanaged Gigabit Ethernet Switch w/4-Port PoE-af Injector
Included Accessories	User's Manual, AC Power Cord

Dimensional Diagram



Typical Application



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Specifications subject to change without notice.

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