ES3001-4P-4T

8-Port Unmanaged Ethernet Switch

Overview

The IFS line of economy series (ES) Ethernet switches provide a balance between cost and performance. The ES3001-4P-4T is a Gigabit Ethernet (10/100/1000Mbps) switch combined with a built-in 4-Port PoE injector providing up to 15.4W per port with a total PoE power budget of 55 watt.

The IFS ES3001 is a cost-effective switch for smaller independent networks. These switches are designed to provide non-blocking wire-speed performance and easy plug-andplay installation for desktop deployment of IP cameras, IP intercom, wireless access points (WAP) and other Ethernet applications.

The IFS ES Series switches utilize an internal power supply versus an external wall-mount transformer thus providing more reliable PoE performance and a higher total PoE power budget than other similar switches on the market.

Power Saving Features

In addition, the ES3001-4P-1T utilizes energy saving technology that reduces energy usage by up to 40% more than other standard comparable PoE switches on the market.

The ES3001-4P-1T incorporates two advanced Green Networking technologies:

• The Idle Mode Link Down Power Saving feature complies with 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 substantially reduce overall power consumption, which makes a significant contribution to energy savings.

Standard Features

- ES3001-4P-4T
- 4-ports 10 / 100 / 1000Mbps Ethernet (non-PoE)
- High Performance Switch 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)
- IEEE 802.3x PAUSE frame-flow control (full-duplex)
- Automatic source-address learning and aging
- Support to handle Jumbo Packets 9K Bytes
- Complies with IEEE 802.3af Power over Ethernet End-Span PSE
- Supports up to 15.4 W (13.75 W per port at full budget)
- Auto detect powered device (PD)
- 55 W total PoE power budget
- Built-in 65 W power supply
- 0 to 50 ºC operating environment
- 3-year limited warranty

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Specifications

RJ45 Ports

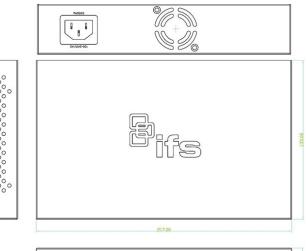|	
10/100/1000Base-TX Connectors	RJ-45 (4) PoE and (4) non-PoE (8 total)
Port Configuration	Auto MDI / MDI-X
Port Speed	Auto-negotiate

PoE

PoE Standard	IEEE 802.3af Power over Ethernet / PSE
PoE Power Supply Type	End-Span
PoE Power Output Per Port	48 VDC, 350 mA . max. 15.4 W
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Budget	55 W

Switch Performance

Switch Architecture	Store-and-Forward
Switch Fabric (non-blocking)	16 Gbps
Throughput (Packet per second)	11.9 Mpps to 64 bytes
Address Table	8K entry
Maximum Frame Size	9K
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
Fan Alert	On if fan is non-operational

Electrical & Mechanical

Supply Voltage	100 to 240 VAC, 50/60 Hz, 1.5 A
Power Consumption	65 W max./221 BTU max.
Enclosure	Metal
Dimensions (W x D x H)	217 x 135 x 43 mm
Weight	1.96 lbs. / 0.89kg

Environmental

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

Standards Compliance

IEEE Standards	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX
	IEEE 802.3ab Gigabit Ethernet
	IEEE 802.3x Flow Control and Back pressure
	IEEE 802.3-af 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

Part No.	Description
ES3001-4P-4T	8-Port Unmanaged Ethernet Switch with 4-Port PoE-af Injector

UTC Fire & Security
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