

ES2402-8P-2C

8-Port Fast Ethernet Web Smart Switch POE-AT with 2 x Gig Uplinks

Overview

The UTC Fire & Security IFS ES Series of Web Smart PoE+ Switches are designed to be a cost-effective network switch solution for small to mid sized IP camera surveillance systems. The switches are available in 8-, 16- or 24-port Fast Ethernet PoE+ configurations with all versions having two additional GigE RJ45/SFP ports. Allowing for basic management and PoE functionality, the switches meet the basic need of providing Fast Ethernet ports for IP cameras with GigE ports for NVR/Server connections. The IFS ES Series of Web Smart Switches support basic Layer 2 features, such as VLANs, QoS, Link Aggregation, Port Mirroring, Spanning Tree, IGMP Snooping and basic security. In addition, these switches provide both IEEE802.3-af/at power on each port (up to the maximum total power budget) and offer full PoE management features. With a unique PoE usage LED meter on the front panel, these switches allow users to monitor total power budget usage without having to connect to a PC.



Details

- 8-Port 10/100Mbps Fast Ethernet ports with PoE-AT
- 2x 10/100/1000Mbps TP combo interfaces and 2 mini-GBIC/SFP slots
- Easy web-based management
- Supports auto-negotiation and half-duplex/full-duplex modes for all 10Base-T/100Base-TX and 1000Base-T ports
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause-frame flow control (full-duplex)
- Security Control: MAC Address binding and TCP & UDP Filtering
- QOS support: Allows to assign low / high priority on each port
- IGMP snooping for better control of multicast streams
- Port mirroring to monitor the incoming or outgoing traffic on a particular port
- Complies with IEEE 802.3at Power over Ethernet
- Supports up to 8 POE-af devices or 4 POE-at devices at full power
- Up to 125W total POE Power

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Technical Specifications

Category

| | |
|------------|---------------|
| Category | Commercial |
| Management | Web Smart |
| PoE | Yes |
| Managed | Yes (Layer 2) |

Physical ports

| | |
|-----------------|--------------------------------|
| Speed | Fast |
| No. of ports | 8 |
| Port type | 8 Fast 2 Gig (shared with SFP) |
| PoE/PoE+ | 8 Port PoE/4 Port PoE+ |
| Fiber port | 2 (shared) |
| SFP speed | 100/1000 |
| Supported SFP's | S20/S25 series, S30/S35 series |

Switch Performance

| | |
|-------------------|----------|
| Throughput (Mpps) | 4.16 |
| Switch fabric | 5.6 Gbps |
| Mac table | 4 K |

Layer 2 Functions

| | |
|----------------------|---------------------------|
| IGMP snooping | 32 Group, Snooping v1, v2 |
| IGMP query | Without Query supported |
| Management interface | Web |
| VLAN, QoS | 30, yes |

General

| | |
|--------------------|--|
| Fast ring | No |
| Security | MAC address binding, TCP/UDP filtering |
| DHCP s1oping | No |
| Fault relay output | No |

Physical

| | |
|---------------------|-------------------|
| Stackable | No |
| Physical dimensions | 330 x 152 x 44 mm |
| Net weight | 1.6 kg |
| Colour | Black |
| Material | Metal |
| Mounting type | 19" rack |

Environmental

| | |
|-----------------------|--|
| Operating temperature | 0 to +50°C |
| Storage temperature | -20 to +70°C |
| Relative humidity | 20 to 95% (non-condensing) |
| Environment | Indoor |
| Operating : | Temperature 0 to 50°C; Relative Humidity 20 to 95% (non-condensing) |
| Storage : | Temperature -20 to +70°C; Relative Humidity 20 to 95% (non-condensing) |

Electrical

| | |
|---------------------|--------------------------|
| Power supply type | 100 to 240 VAC |
| Power consumption | 176 W |
| PoE power budget | 125 W |
| Redundant power | No |
| Power Requirement : | 100~240V AC, 50 to 60 Hz |
| Power Consumption : | 176 Watts maximum |

Hardware Specifications

| | |
|-----------------------------|---|
| Ports: | 8 x 10/100Base-TX RJ-45 with Auto-MDI/MDI-X function for each port |
| Uplink Ports: | (RJ45) 2x 10/100/1000Base-TX RJ-45 ports (shared with SFP interfaces) |
| Uplink Ports (SFP): | 2x 1000Base-SX/LX/BX SFP/Mini-GBIC interfaces, shared with port-25~Port-26 |
| Switch Architecture : | Store-and-Forward |
| Switch Fabric : | 5.6Gbps/non-blocking |
| Switch Throughput : | 4.16Mpps @64Bytes |
| Address Table : | 4K entries |
| Share Data Buffer : | 2.75Mb embedded memory for packet buffers |
| Maximum Frame Size : | 1536Bytes |
| Flow Control : | Back pressure for Half-Duplex and IEEE 802.3x Pause Frame for Full-Duplex |
| LED Indicators : | Per unit: Power (Green), FAN Alarm, 16x 10/100: Link/Activity (Green), PoE In-Use (Amber) |
| Dimensions (W) x (D) x (H): | 330 x 153 x 44.5mm, 1U height |
| Weight : | 1.6kg |
| Reset Button : | < 5 sec.: System reboot, > 5 sec.: Factory Default |

Power over Ethernet

| | |
|---|---|
| PoE Standard : | IEEE 802.3at PSE (Power Sourcing Equipment) |
| PoE Power Supply Type : | End-Span |
| PoE Power Output : | Per port 56V DC, Max. 30.8 watts |
| Power Pin Assignment : | 1/2(+), 3/6(-) |
| Max. number of Class 2 PD/ class 3 PD : | 8 / 4 |

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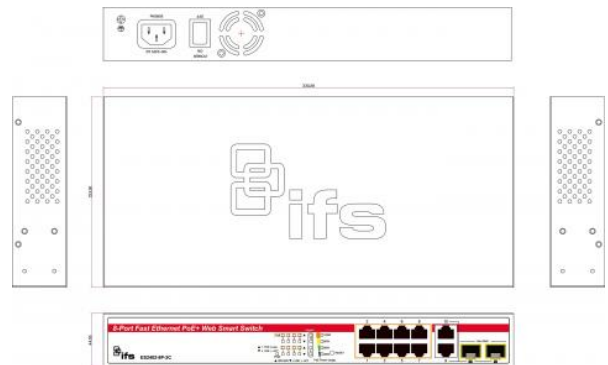
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Standards Conformance

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|---|
| IEEE 802.3 10Base-T |
| IEEE 802.3u 100Base-TX |
| IEEE 802.3z Gigabit SX/LX |
| IEEE 802.3ab Gigabit 1000Base-T |
| IEEE 802.3at Power over Ethernet |
| IEEE 802.3x Flow Control and Back Pressure |
| IEEE 802.3ad: Port trunk with LACP |
| IEEE 802.1d Spanning Tree Protocol |
| IEEE 802.1w Rapid Spanning Tree Protocol |
| IEEE 802.1p Class of Service |
| IEEE 802.1Q VLAN Tagging |
| IEEE 802.1x Port Authentication Network Control |

Regulation Compliance :

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| FCC Part 15 Class A, CE |
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