ES2402-24P-2C

24-Port Fast Ethernet Web Smart Switch POE-AT

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.

Standard Features

- 24-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 24 POE-af devices or 12 POE-at devices at full power
- Up to 380W total POE Power

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Specifications

Hardware Specifications

Ports:	24x 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 :	8.8Gbps/non-blocking
Switch Throughput :	6.54Mpps @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
	24x 10/100: Link/Activity (Green)
	2x 1000T: LNK/ACT (Green)
	PoE: PoE In-Use (Amber)
Dimensions (W) x (D) x (H):	440 x 300 x 44.5mm, 1U height
Weight :	4.5kg
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 54V DC, Max. 30.8 watts
Power Pin Assignment :	1/2(+), 3/6(-)
Max. number of Class 2 PD / class 3 PD :	24 / 12
PoE Power Budget	220 watts

Layer 2 Function

Management Interface :	Web Browser, SNMP v1
Port Configuration :	Port disable/enable. Auto-negotiation 10/100Mbps full- and half-duplex mode selection. Flow control disable/enable. Bandwidth control on each port.
Port Status :	Display each port's speed duplex mode, link status, Flow control status, Auto negotiation status, trunk status
VLAN :	802.1Q tagged-based VLAN, up to 32 VLAN groups, out of 4094 VLAN IDs Port-based VLAN, up to 26 VLAN groups MTU VLAN
Spanning Tree :	IEEE 802.1d Spanning Tree, IEEE 802.1w Rapid Spanning Tree
Link Aggregation :	1 group of 2-Port 10/100/1000Base-T trunk supported
QoS :	Traffic classification based on:- Allow to assign low / high priority on each port First-In-First-Out, All-High-before-Low, Weight-Round-Robin QoS policy
IGMP Snooping :	IGMP (v1/v2) Snooping, up to 32 multicast groups Without Query supported
Port Mirror :	TX/RX/Both; Many to 1 monitoring
Security :	MAC address binding, TCP/UDP filtering

Environmental

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

Electrical

Power Requirement :	100~240V AC, 50-60 Hz
Power Consumption :	513 Watts maximum

Standards Conformance

	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX
	IEEE 802.3z Gigabit SX/LX
	IEEE 802.3ab Gigabit 1000Base-T
	IEEE 802.3af 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 :	FCC Part 15 Class A, CE

Ordering Information

Part No.	Description
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