

ES2402-16P-2C

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

Overview

The Carrier 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

- 16-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
- L-2 : Supports upto 32 VLAN's Groups, Spanning Tree Protocol
- 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) groups, out of 4K VLAN IDs
- 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 12 POE-af devices or 7 POE-at devices at full power
- Up to 220W total POE Power

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Spécifications techniques

Généralités

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

Catégorie

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

Ports physiques

No. of ports	16
Port type	16 Fast 2 Gig (shared with SFP)
Speed	Fast
PoE/PoE+	16 Port PoE/7 Port PoE+
Fiber port	2 (shared)
Supported SFPs	S30/S35 series

Performance des switches

Switch fabric	7.2 Gbps
Throughput (Mpps)	5.35
Mac table	4 K

Fonctions de couche 2

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

Électrique

PoE power budget	220 W
Redundant power	No
Operating voltage	100~240VAC, 50 to 60 Hz
Power supply type	100 to 240 VAC
Power consumption	240 W

Caractéristiques physiques

Physical dimensions	444 x 203 x 44 mm 1U
Net weight	2.550 kg
Colour	Black
Material	Metal
Mounting type	19" rack
Stackable	No

Environnement

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

Hardware Specifications

Ports:	16x 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 :	7.2Gbps/non-blocking
Switch Throughput :	5.35Mpps @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) 2x 1000T: LNK/ACT (Green) PoE: PoE In-Use (Amber)
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 :	12 / 7

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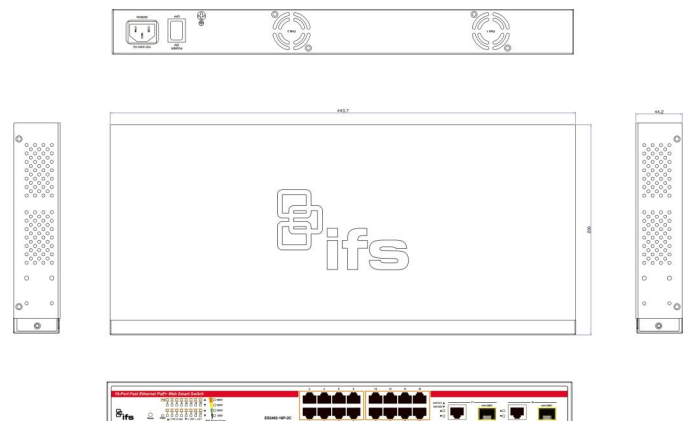
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Layer 2 Function

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 30 VLAN groups, out of 4094 VLAN IDs Port-based VLAN, up to 18 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

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



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