ES2402-16P-2C-V3

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

Overview

The 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 10/100 Mbps Fast Ethernet ports with PoE-AT
- Up to 250 m (with PoE) 10-BaseT mode
- 2x 10/100/1000 Mbps TP combo interfaces and 2 mini-GBIC/SFP slots (100/1000)
- Easy web-based management
- Supports auto-negotiation and half-duplex/full-duplex modes for all 10Base-T/100Base-TX and 1000Base-T ports
- 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 16 POE-af devices or 8 POE-at devices at full power
- Up to 240 W total POE power

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Technical specifications

General

Storm control	Broadcast
Security	MAC address binding, TCP/UDP filtering
DHCP snooping	No

Category

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

Physical ports

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	S2x and S3x series, S30/S35 series
SFP speed	100/1000

Switch Performance

Switch fabric	7.2 Gbps
Throughput (Mpps)	5.35
Mac table	16 K
Jumbo frame support	10 K

Layer 2 Functions

Management interface	Web
IGMP snooping	255 Group, Snooping v1, v2, v3
IGMP query	Without Query supported
VLAN, QoS	30, yes

Electrical

PoE power budget	240 W
Redundant power	No
Power supply type	100 to 240 VAC
Power consumption	274 W (max.)

Physical

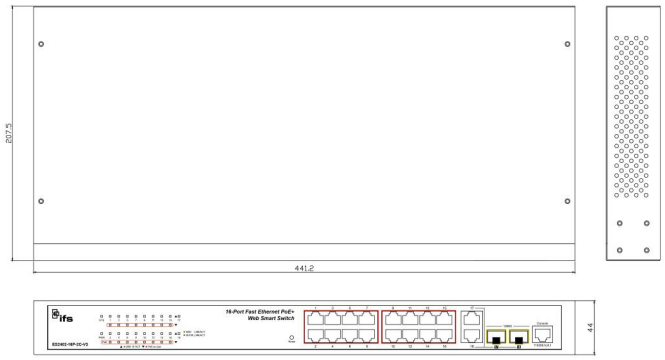
Physical dimensions	440 x 208 x 44 mm
Net weight	2.8 kg
Colour	Black
Material	Metal
Mounting type	19" rack
Stackable	No

Environmental

Operating temperature	0 to +50°C
Storage temperature	-10 to +70°C
Relative humidity	20 to 95% noncondensing
Environment	Indoor

Regulatory

Compliancy	CE, FCC Part 15 Class A
Standards	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



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