



# ES2402-16P-2C-V3

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

### Overview

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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

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- 16-Port 10/100 Mbps Fast Ethernet ports with PoE-AT
- Up to 250m (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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### Spécifications techniques

#### Généralités

Contrôle orage	Diffusion générale
Sécurité	Liaison d'adresse MAC, Filtrage TCP / UDP
Recherche DHCP	Non

#### Catégorie

Catégorie	Commercial
Gestion	Web Smart
Géré	Oui (couche 2)
PoE	Oui

#### Ports physiques

Nombre de ports	16
Type de port	16 Fast 2 Gig (partagé avec la SFP)
Vitesse	Rapide
PoE/PoE +	16 Port PoE/7 Port PoE+
Port fibre	2 (partagé)
Prise en charge SFP	Série S2x et S3x, Série S30/S35
Vitesse SFP	100/1000

#### Performance des switches

Structure de commutation	7.2 Gbps
Débit (Mpps)	5.35
Table MAC	16 K
Jumbo frame support	10 K

#### Fonctions de couche 2

Interface de gestion	Web
Recherche IGMP	255 groupe, Snooping v1, v2, v3
Requête IGMP	Sans requête prise en charge
VLAN, QoS	30, oui

#### Électrique

Budget d'alimentation PoE	240 W
Alimentation redondante	Non
Type de bloc d'alimentation	100 à 240 VAC
Consommation électrique	274 W (max.)

#### Caractéristiques physiques

Dimensions physiques	440 x 208 x 44 mm
Poids net	2.8 kg
Couleur	Noir
Matériel	Métal
Type de montage	Rack 19"
Empilable	Non

#### Environnement

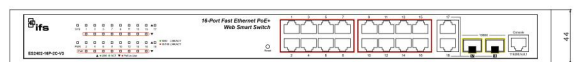
Température de fonctionnement	0 to +50°C
Température de stockage	-10 to +70°C
Humidité relative	20 to 95% noncondensing
Environnement	Intérieur

#### Regulatory

Conformité	CE, FCC Part 15 Class A
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#### 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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