# ES3402-16P-2S

## 16-Port Gigabit Lite-managed Economy Switch PoE-at with 2x 1000X SFP Uplinks

### Overview

The IFS ES3402 series of Economy 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 or 16-port Gigabit PoE+ configurations with both versions having two additional 1000BASE-FX/SX/LX SFP ports. Allowing for basic management and PoE functionality, the switches meet the basic need of providing Gigabit Ethernet ports for IP cameras and NVR/Server connections.

### Robust layer 2 features

The ES3402-16P-2S can be programmed for basic switch management functions such as port speed configuration, port aggregation, VLAN, bandwidth control and IGMP snooping. This switch provides 802.1Q tagged VLAN Protocol functions. By supporting port aggregation, the ES3402-16P-2S allows the operation of a high-speed trunk combined with multiple ports, and supports fail-over as well. Also, the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain .

### PoE usage monitor and power control

Through the power usage chart in the web management interface, the ES3402-16P-2S empowers administrators to real-time monitor the power usage status of connected PDs (Powered Devices). This capability significantly improves facility management efficiency. Additionally, the switch allows for timely activation or deactivation of PoE ports, providing the ability to power off or reboot connected PDs as needed. The PoE schedule function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save power and money. It also increases security by powering off PDs that should not be in use during non-business hours.

### Flexibility and long-distance extension solution

The two mini-GBIC slots built in the ES3402-16P-2S support SFP auto-detection and dual speed as it features 100BASE-FX and 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber transceivers to uplink to backbone switch and monitoring center in long distance. The distance can be extended from 550 meters to 2 kilometers (multi-mode fiber) and up to above 10/20/30/40/50/70/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.



### Detaljer

- 8-Port 10/100/1000 Mbps Gigabit Ethernet ports with PoE+ 802.3at
- 2 Gigabit SFP interfaces supporting 100BASE-FX and 1000BASE-SX/LX SFP fiber transceivers
- Easy web-based management
- PD Alive Checking, PoE priority, PoE power limit, PoE usage monitoring
- PoE schedule for energy savings
- Robust Layer 2 features
- IGMP snooping for better control of multicast streams
- Port mirroring to monitor the incoming or outgoing traffic on a particular port (many to 1)
- Up to 240 W total PoE power

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## Tekniske specifikationer

### General

| | |
|---|---|
| Storm control | Broadcast |
| Security | MAC-Adressbindung, TCP / UDP-Filterung |
| DHCP snooping | No |
| Fan | 2 |
| System LED | PWR (Green) |
| Port LEDs | LNK/ACT (Green), PoE-in-use (Amber) |
| Flash memory | 16 Mbytes |
| Reset button | < 10 sec: System reboot, > 10 sec: Factory default |
| Security functions | Port isolation, DHCP Snooping |

### Category

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

### Physical ports

| | |
|---|---|
| No. of ports | 16 |
| Port type | 10/100/1000BASE-T |
| Speed | Gigabit |
| PoE/PoE+ | 16 ports with 802.3af/802.3at PoE+ |
| Fiber port | 2 |
| Supported SFPs | S2x und S3x Serie |
| SFP speed | 100/1000 |
| PoE power output | 32W (max.) |
| Power pin assignment | 1/2(+), 3/6(-) |
| PoE power supply type | End-span |
| PoE standard | IEEE 802.3at PoE+ PSE |

### Switch Performance

| | |
|---|---|
| Switch fabric | 36 Gbps/non-blocking |
| Throughput (Mpps) | 26.78 |
| Mac table | 8 K |
| Jumbo frame support | 10 K |

### Electrical

| | |
|---|---|
| PoE power budget | 240 W max. |
| Redundant power | No |
| Power supply type | 100 bis 240 VAC |
| Power consumption | 7.1 watts / 24.2BTU (System)<br>283 watts / 965BTU (System+PoE) |
| ESD protection | Contact ±6KV , Air ±8KV |
| Surge protection | Differential mode ±2KV , Common mode ±4KV |

### Physical

| | |
|---|---|
| Physical dimensions | 440 x 207 x 44 mm |
| Net weight | 2343 g |
| Colour | Schwarz |
| Material | Metall |
| Mounting type | Schreibtisch-basiert, Rack-Montage |
| Stackable | No |

### Environmental

| | |
|---|---|
| Operating temperature | 0 to +50°C |
| Storage temperature | -10 to +70°C |
| Relative humidity | 5 to 95% noncondensing |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS, UKCA |
| Standards | IEEE 802.3 10Base-T<br>IEEE 802.3u 100Base-TX<br>IEEE 802.3z Gigabit SX/LX<br>IEEE 802.3ab Gigabit 1000Base-T<br>IEEE 802.3x Flow Control and back pressure<br>IEEE 802.1p Class of Service<br>IEEE 802.1Q VLAN Tagging<br>IEEE 802.3af Power over Ethernet<br>IEEE 802.3at Power over Ethernet PLUS<br>RFC 783 TFTP<br>RFC 791 IP<br>RFC 792 ICMP<br>RFC 2068 HTTP<br>RFC 1112 IGMP v1<br>RFC 2236 IGMP v2 |

### Switch performance

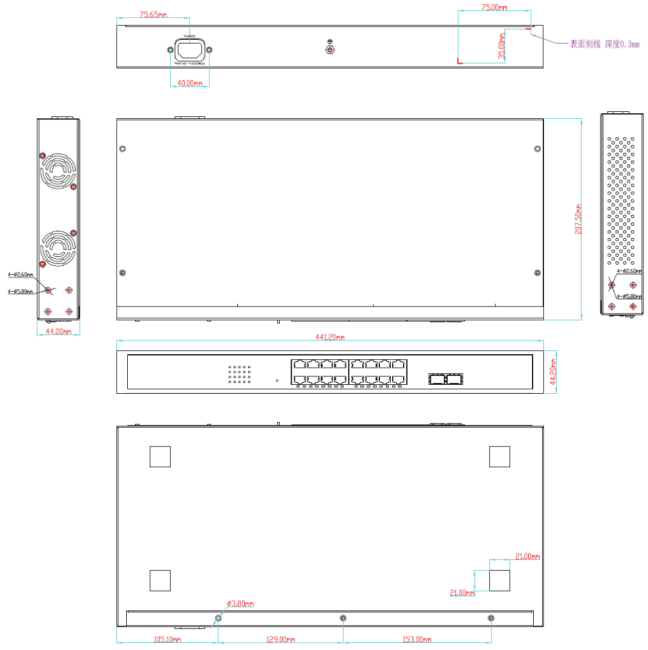
| | |
|---|---|
| Switch architecture | Store-and-forward |
| Shared data buffer | 4.1 MB |
| Flow control | Back pressure for half duplex. IEEE 802.3x pause frame for full duplex. |

### Layer 2 Functions

| | |
|---|---|
| Port configuration | EEE Green energy savings disable/enable, Port disable/enable/reboot, Flow control disable/enable, Bandwidth control on each port, Port loopback protection |
| Port status | Display each port’s speed duplex mode, Display link status, Display flow control status, Display auto negotiation status, Display Green energy saving status |
| Port mirroring | In / Out / All, Many-to-1 monitor |
| VLAN | 802.1Q tagged VLAN, up to 16 VLAN groups |
| Bandwidth control | TX/RX/Both |
| Link aggregation | Static trunk supporting 8 groups with 8 ports per trunk group |
| QoS | 8 priority queues on all switch ports. Supports strict priority and Weighted Round Robin (WRR) CoS policies. Traffic classification: IEEE 802.1p CoS/ToS, IPv4 DSCP, Port-based WRR |
| Multicast | IPv4 IGMP v1/v2 snooping, Up to 256 |

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