

ISFG64-BT v1.0 Industrial PoE switch PoE ISFG64-BT (4xPoE, 2xSFP)



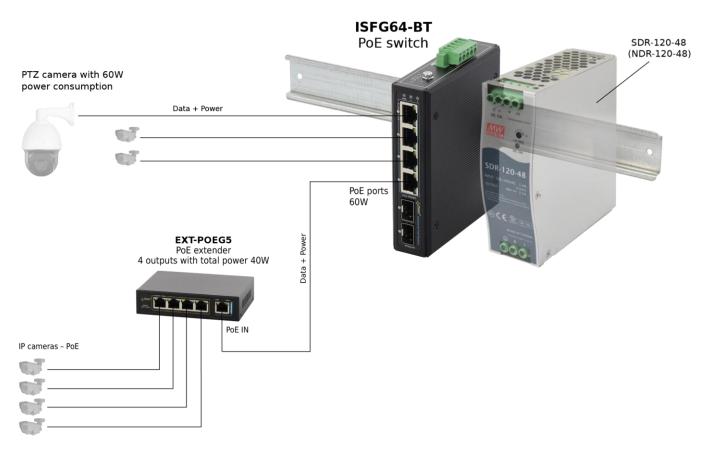
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EN

Features:

- 6 ports industrial switch
 4 PoE ports 10/100/1000 Mb/s, (1÷4 ports) (data and power supply)
 2 ports 1000 Mb/s SFP
- 60 W for each PoE port, supports devices complaint with IEEE802.3af/at/bt standard
- Supports auto-learning and auto-aging of MAC addresses (2K size)
- · Possibility of redundant power supply
- Mounting on a DIN rail (TH35)
- LED indication
- Warranty 5 year

Example of use



1. Technical description

1.1. General description.

ISFG64-BT is a 6-ports PoE switch designed to supply IP devices operating in IEEE 802.3af/at/bt standard, e.g. cameras IP, video intercoms, Access control etc.

Automatic detection of any devices powered in the PoE standard is enabled at the 1-4 ports of the switch. UP LINK ports (marked 5 and 6) are used to connect further network devices using fiber optics (using SFP modules - GBIC). On front panel there is LEDs signaling of the device's status (description in table below). Device has solutions that allow it to be powered from two sources (emergency power supply, redundant power supply) – in case of a failure of one source, it immediately switches to backup one.

The PoE technology ensures a network connection and reduces installation costs by eliminating the need to supply a separate power cable for each device. This method allows supplying other network devices, such as IP phone, wireless access point or router.

1.2 Block diagram.

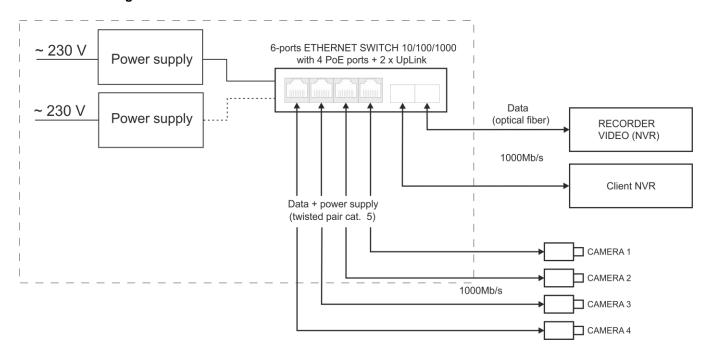


Fig. 1. Block diagram.

1.3 Description of components and connectors.

Table 1. (See Fig. 2)

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Component No. (Fig. 2)	Description	
[1]	2 x UP LINK ports (SFP)	
[2]	4 x PoE ports (1÷4)	
[3]	Power Socket (V1/V2)	
[4]	Holder for DIN rail	

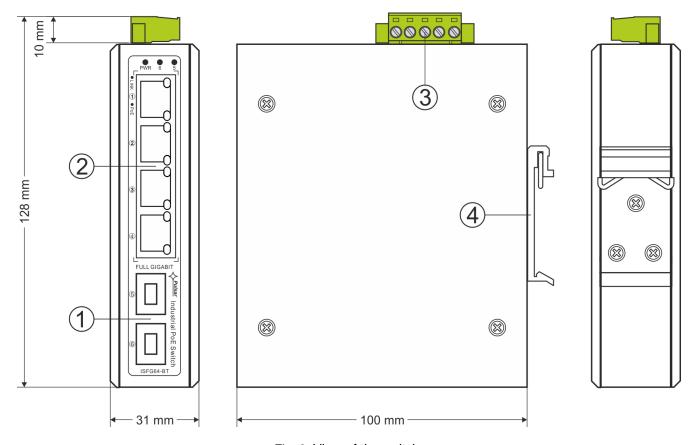


Fig. 2. View of the switch.

1.4 Technical parameters

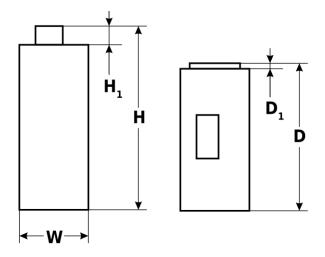


Table 2

Cross)		
IEEE 802. 3af/at (1÷4 ports), 52 V DC / 60 W at each port *		
Store-and-Forward		
Switch: 12 – 57 V DC; 2,5 A max. PoE: 48 – 57 V DC; 2,5 A max.		
ondensation		

^{*} The given value of 60 W per port is the maximum value. The total power consumption should not exceed 120 W.

2. Installation

2.1. Requirements

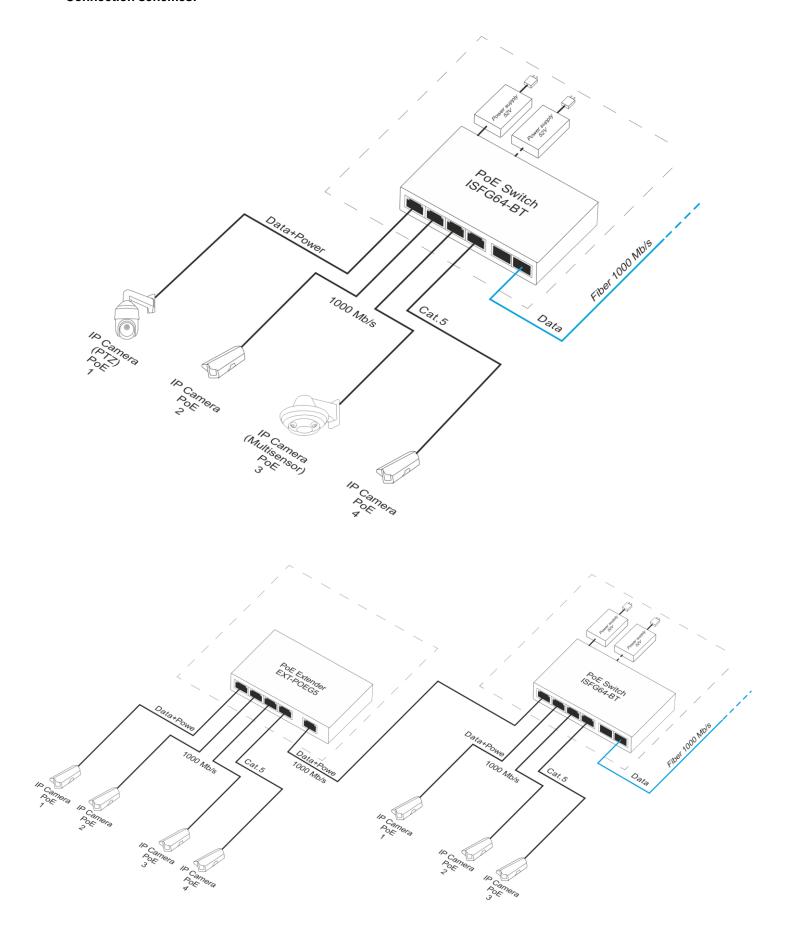
Unit should be mounted in confined spaces with normal relative humidity (RH=90% maximum, without condensing) and temperature from -30°C to +70°C. Ensure the free flow of air around the unit. The device shall work in a vertical position that guarantees sufficient convectional air-flow through ventilating holes of the enclosure.

The switch load balance should be done before installation. Depending on application, appropriate power supply should be selected, PoE available only at 48 – 57 V (52 V recommended). The given value of 60 W per port is the maximum value referring to a single output. The total power consumption should not exceed 120 W. The increased demand for power is particularly evident in the case of cameras with heaters or infrared illuminators - when launching these features, the power consumption increases rapidly, which may adversely affect the operation of the switch. As the device is designed for a continuous operation and is not equipped with a power-switch, therefore an appropriate overload protection in the power supply circuit should be provided. The electrical system shall be made in accordance with applicable standards and regulations.

2.2. Installation procedure

- 1. Connect switch to power supply unit(s), paying attention to polarization and other parameters.
- 2. Connect the power supply(s) to the 230 V socket.
- 3. Connect the camera wires to the RJ45 connectors (sockets PoE).
- 4. Check the optical indication of switch operation (see Table 3).

Connection schemes:



3. Operation indication.

Table 3. Operation indication

OPTICAL INDICATION OF THE SWITCH'S POWER SUPPLY

GREEN LED LIGHT (Power) Indication of the switch's power supply PWR	OFF - no power supply of the switch ON - power supply on, normal operation				

OPTICAL INDICATION AT THE POE PORTS (1÷4)

GREEN LED LIGHT (PoE) Indication of the PoE power supply at the RJ45 ports	OFF - no power supply at the RJ45 port (the device is not connected or not compliant with the IEEE802.3af/at/bt standard) ON - power supply at the RJ45 port Blinking - short-circuit or output overload
YELLOW LED LIGHT (LINK) The connection status of LAN devices 10/100/1000 Mb/s and data transmission	OFF - no connection ON - device is connected 10/100/1000 Mb/s Blinking - data transmission

OPTICAL INDICATION AT THE UP LINK PORTS

GREEN LED LIGHT (5) The connection status of LAN devices and data transmission	OFF - device no connection ON - device is connected Blinking - data transmission
GREEN LED LIGHT (6) The connection status of LAN devices and data transmission 6	OFF - device no connection ON - device is connected Blinking - data transmission



WEEE LABEL

Waste electrical and electronic equipment must not be disposed of with normal household waste. According to the European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

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