

## Technical data sheet

Ethernet · Unmanaged PoE+ switches, 4 ports, 10/100/1000 MBit/s

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**QoS - Quality of Service, PROFINET Conformance Class A, compact design**  
**4 RJ45 PoE+ ports 1GBit/s + 1 RJ45 port 1GBit/s + 1 SFP port 1GBit/s**  
**Redundant supply, extended temperature range, jumbo frames up to 9kB**



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### Identification

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Type ET-SWGU4FP  
Part No. [772009](#)

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### Product version

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Datasheet version 00

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### Description

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Description Industrial 4-Port 10/100/1000T 802.3at PoE+, 1-Port 10/100/1000T + 1-Port 100/1000X SFP Gigabit Ethernet Switch

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### Communication

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Standard IEEE 802.3, 802.3u, 802.3x, 802.3af, 802.3ab  
IEEE 802.3az Gigabit SX/LX  
IEEE 802.3az Energy Efficient Ethernet (EEE)  
IEEE 802.3at Power over Ethernet Plus PSE  
IEEE 802.1p Class of Service

LAN 10/100/1000 Base-T RJ45 Auto-MDI/MDI-X, Auto Negotiation

Cable length (segment) Max. 100 m

Transfer rate max. 1000 Mbit/s

Connection technology (data) 5 × RJ45, 1 × SFP (mini-GBIC)

Throughput (packet per second) 8.93 Mpps @ 64 bytes

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Part No. [772009](#) • Datasheet version: 00

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SYSTEMATIC TECHNOLOGY

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Status display communication	System: Power 1 (P1): green Power 2 (P2): green Alarm, (Fault): red Per 10/100TX RJ45 Ports: 10/100 LNK/ACT: green 100/1000 LNK/ACT: orange (/amber)
Switch architecture	Store-and-Forward
Jumbo Frame	9K
Shared data buffer	4 Mbit/s
Source Address Table	2K inputs, automatic source address learning and aging
FLOW Source	EEE 802.3x pause frame for full-duplex Back pressure for half-duplex
Switch Fabric	10 Gbps (non-blocking)

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#### Safety

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ESD (Ethernet)	DC 6 kV
Surge (EFT for power)	DC 4 kV
Reverse voltage protection	Yes

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#### Monitoring

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Power supply voltage monitoring	Relay, 1 normally open
Switching current	1 A @ DC 24 V
Switching voltage	AC 120 V / DC 28 V
Isolation voltage	DC 500 V

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#### General

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Operation voltage range	DC 12–54 V, redundant
Power consumption	139 W full load Ethernet + PoE+
Power output	36 W @ 54 V (per PoE+ port)
Degree of protection	IP40
Relative humidity (operation)	5 % – 90 % (non-condensing)
Relative humidity (storage)	5 % – 90 % (non-condensing)
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715)
Installation position	Any
Connection type	6-pole pluggable screw terminal for power supply and fault diagnosis single wire/fine wire 0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup> AWG 20 – AWG 14 fine stranded wire with ferrule 0.25 mm <sup>2</sup> – 1.5 mm <sup>2</sup> AWG 20 – AWG 16
MTBF	>100000 h
Dimensions (w × h × d)	50.0 mm × 87.0 mm × 135.0 mm
Weight/unit	0.623 kg
PU (units)	1

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## General ambient conditions

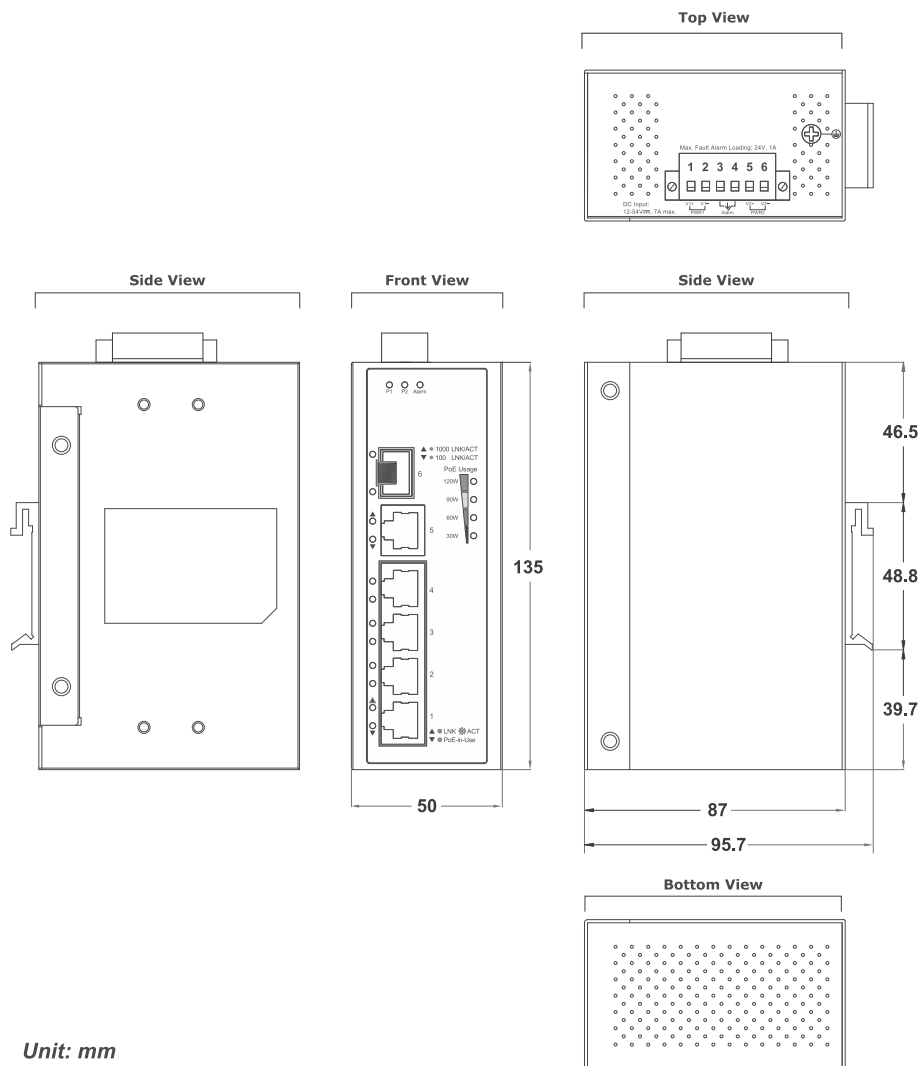
Operation temperature range -40 °C ... +75 °C  
Storage temperature range -40 °C ... +75 °C

## Certifications/Standards

Certifications CE  
UKCA  
FCC Part 15 Class A

Standards EN 55024  
EN 55032  
EN 55035  
IEC 61000-4-2/3/4/5/6/8  
IEC 60068-2-27  
IEC 60068-2-32  
IEC 60068-2-6

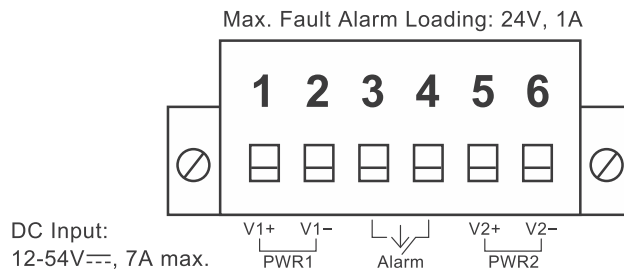
## Dimensions



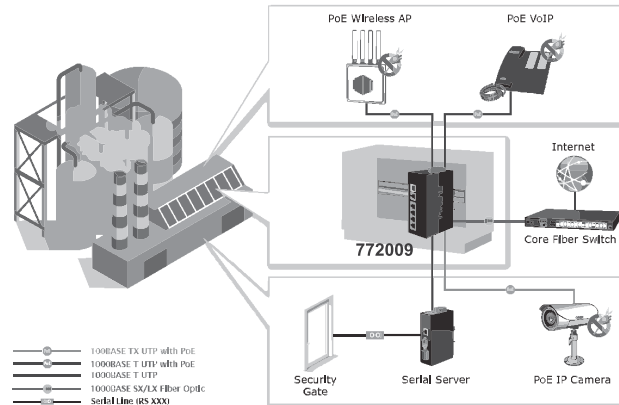
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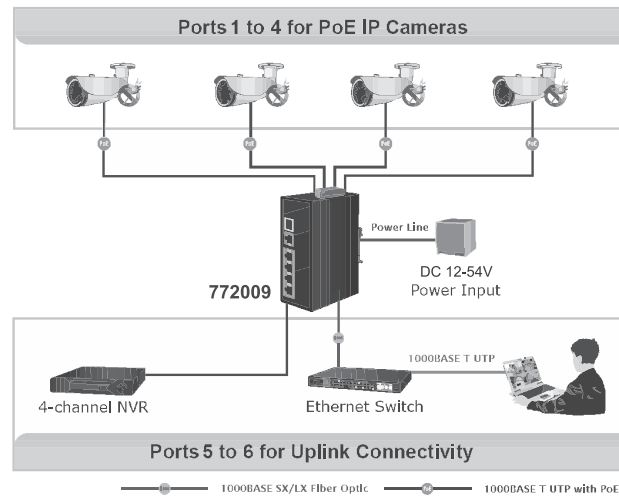
## PIN assignment



## Use



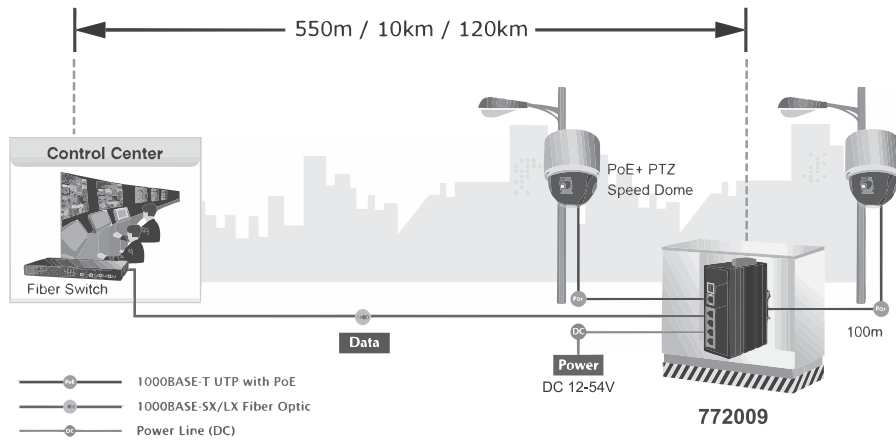
## Use



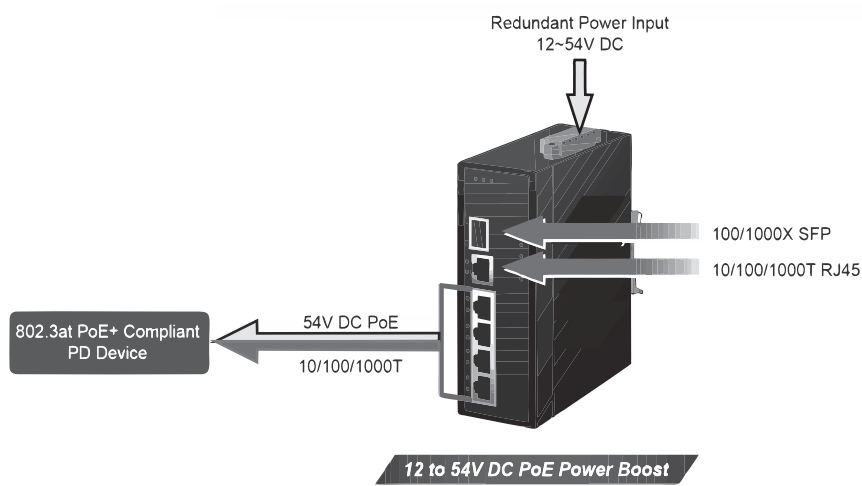
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## Use



## Action chart



### LED status

#### LED Indicators

##### ■ System

LED	Color	Function
P1	Green	Lights to indicate power 1 has power.
P2	Green	Lights to indicate power 2 has power.
Alarm	Red	Lights to indicate either power 1 or power 2 has no power.

##### ■ PoE Power Usage (Unit: Watt)

LED	Color	Function
30W	Amber	Off to indicate the PoE usage is less than 14W. Blinks to indicate that the PoE usage is around 15W to 29W. Lights to indicate the PoE usage is around/over 30W.
60W	Amber	Blinks to indicate that the PoE usage is around 45W to 59W. Lights to indicate the PoE usage is around/over 60W.
90W	Amber	Blinks to indicate that the PoE usage is around 75W to 89W. Lights to indicate the PoE usage is around/over 90W.
120W	Amber	Blinks to indicate that the PoE usage is around 100W to 119W. Lights to indicate the PoE usage is at the maximum.

##### ■ Per 802.3at PoE+ 10/100/1000BASE-T Interface (Port 1 to Port 4)

LED	Color	Function
LNK/ACT	Green	Lights to indicate the link through that port is successfully established at 10Mbps or 100Mbps or 1000Mbps. Blinks to indicate that the Switch is actively sending or receiving data over that port.
PoE-in-Use	Amber	Lights to indicate the port is providing DC in-line power. Off to indicate the connected device is not a PoE powered device (PD).

##### ■ Per 10/100/1000BASE-T Interface (Port 5)

LED	Color	Function
1000 LNK/ACT	Green	Lights to indicate the port is successfully established at 1000Mbps.
		Blinks to indicate that the Switch is actively sending or receiving data over that port.
10/100 LNK/ACT	Amber	Lights to indicate the port is successfully established at 100Mbps or 10Mbps.
		Blinks to indicate that the Switch is actively sending or receiving data over that port.

##### ■ Per 1000BASE-X SFP Slot (Port 6)

LED	Color	Function
1000 LNK/ACT	Green	Lights to indicate the port is successfully established at 1000Mbps.
		Blinks to indicate that the Switch is actively sending or receiving data over that port.
100 LNK/ACT	Amber	Lights to indicate the port is successfully established at 100Mbps
		Blinks to indicate that the Switch is actively sending or receiving data over that port.