Technical data sheet

Ethernet · Unmanaged PoE+ Switches, 8-ports, Ethernet 10/100/1000 Mbit/s, 2 100/1000 Mbit/s slots for SFP-transceiver

Unmanaged Gigabit Ethernet PoE+ switch with 8-port 10/100/1000T
802.3at PoE+ and two 100/1000Base-X SFP fiber optic interfaces for automatic detection of the SFP transceiver type
Redundant supply, extended temperature range, jumbo frames up to 9kB

Identification

Type	ET-SWGU8FP
Part No.	772025

Product version

Datasheet version	02

Description

Description	Unmanaged Gigabit Ethernet PoE+ switch with 8-port 10/100/1000T for 802.3at PoE+ and two 100/1000Base-X fiber optic interfaces for automatic detection of the SFP transceiver type.

Communication

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)	8 x RJ45, 2 x SFP (mini-GBIC)
Throughput (packet per second)	14.8 Mpps @ 64 bytes

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Status display communication	3 x LED for System and Power: Green: DC Power 1 Green: DC Power 2 Red: Power Fault Alarm 8 x LED for PoE Copper Port (Port 1-8) Green: LNK/ACT (10/100/1000 Mbps) Amber: PoE-in-Use 2 x LED for 100/1000X Fiber Port (Port 9-Port 10): Green: LNK/ACT (100/1000Mbps) Amber: 1000 Mbps 4 x LED for PoE Usage Amber: 60 W, 120 W, 180 W, and 240 W
Switch architecture	Store-and-Forward
Jumbo Frame	9 Kbytes
Shared data buffer	4 Mbit/s
Source Address Table	8k entries
FLOW Source	Back pressure for half-duplex EEE 802.3x pause frame for full-duplex
Switch Fabric	20 Gbps

Safety

ESD (Ethernet)	DC ± 6 KV
Surge (EFT for power)	DC ± 6 KV
Reverse voltage protection	Yes

Monitoring

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

General

Rated current	240 W, DC: max. 7 A
Operation voltage range	DC 12–54 V, redundant
Power consumption	240 W full load Ethernet + PoE+
Power output	30 W @ 54 V (per PoE+ port)
Degree of protection	IP30
Relative humidity (operation)	5 % – 95 % (non-condensing)
Relative humidity (storage)	5 % – 95 % (non-condensing)
Housing material	Aluminum
Mounting	DIN rail mounting Wall mounting
Installation position	Any
Connection type	6-pole pluggable screw terminal for power supply and fault diagnosis AWG 20 – AWG 12
MTBF	>100000 h
Dimensions (w × h × d)	77.0 mm × 152.0 mm × 107.3 mm
Weight/unit	1.133 kg

PU (units)	1

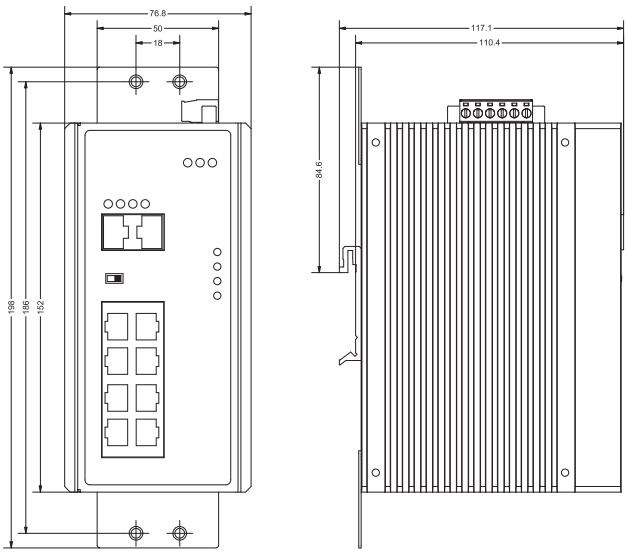
General ambient conditions

Operation temperature range	-40 °C … +75 °C
Storage temperature range	-40 °C … +85 °C

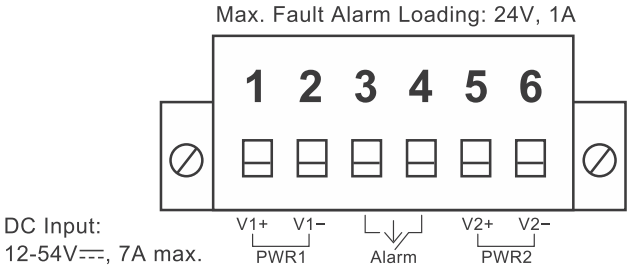
Certifications/Standards

Conformity	CE UKCA
Certifications	FCC Part 15 Class A cULus (E332878)
Standards	EN 55024 EN 55032 EN 55035 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6

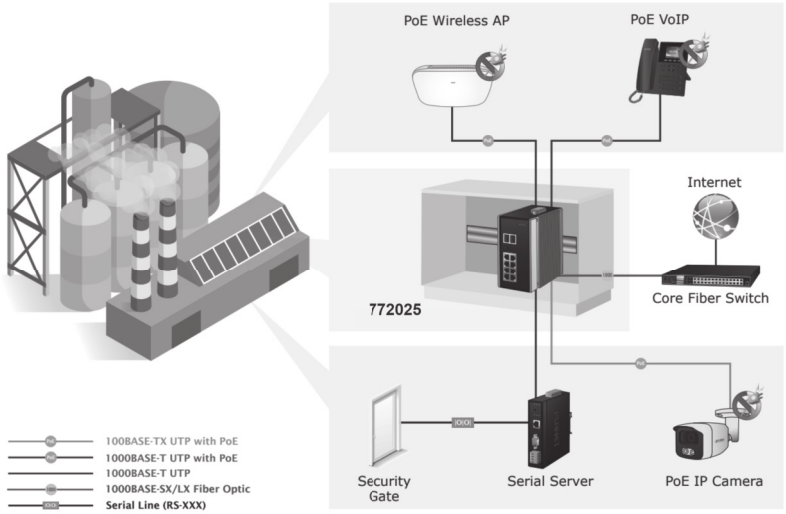
Dimensions



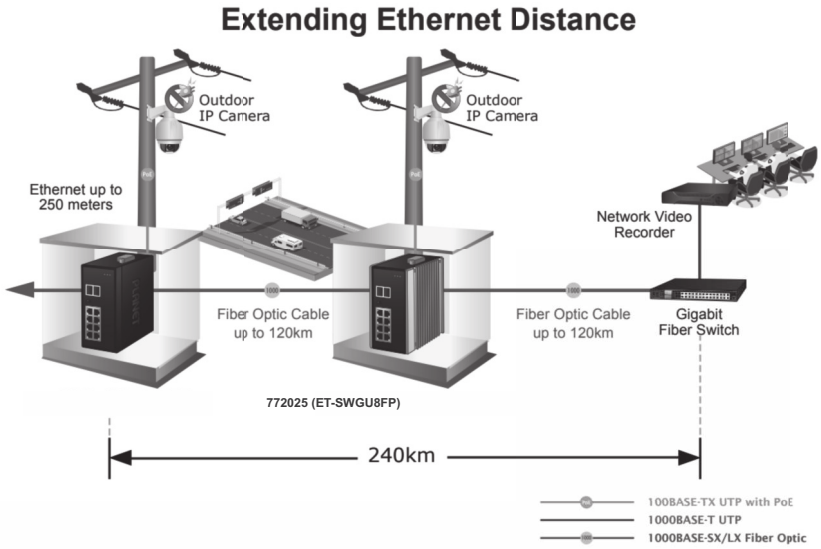
PIN assignment



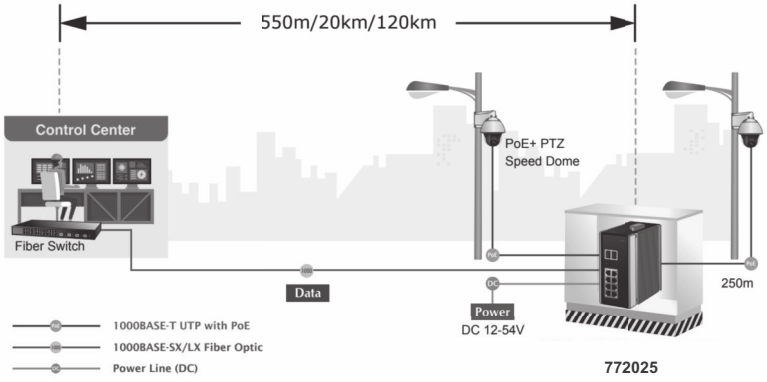
Use


PoE Wireless AP
PoE VoIP
Internet
Core Fiber Switch
772025
Security Gate
Serial Server
PoE IP Camera
100BASE-TX UTP with PoE
1000BASE-T UTP with PoE
1000BASE-T UTP
1000BASE-SX/LX Fiber Optic
Serial Line (RS-XXX)

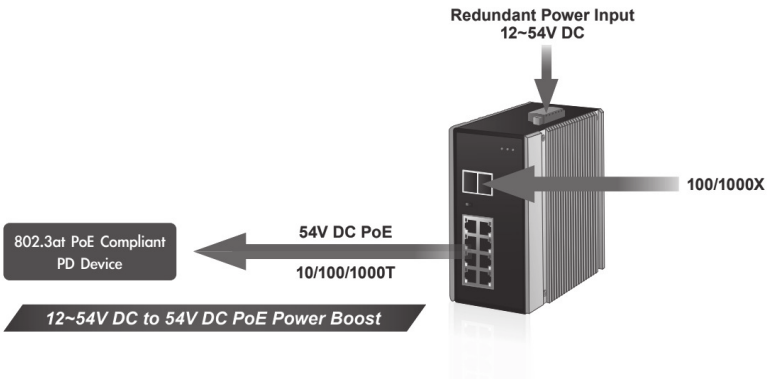
Use


Extending Ethernet Distance
Outdoor IP Camera
Outdoor IP Camera
Ethernet up to 250 meters
Network Video Recorder
Fiber Optic Cable up to 120km
Fiber Optic Cable up to 120km
Gigabit Fiber Switch
772025 (ET-SWGU8FP)
240km
100BASE-TX UTP with PoE
1000BASE-T UTP
1000BASE-SX/LX Fiber Optic

Use


550m/20km/120km
Control Center
Fiber Switch
PoE+ PTZ Speed Dome
Data
Power
DC 12-54V
250m
772025
1000BASE-T UTP with PoE
1000BASE-SX/LX Fiber Optic
Power Line (DC)

Action chart



LED status

2.2 LED Indicators

■ **System**

LED	Color	Function
P1	Green	**Lights:** Indicates power 1 has power.
P2	Green	**Lights:** Indicates power 2 has power.
Alarm	Red	**Lights:** Indicates either power 1 or power 2 has no power.
60W	Amber	**Off:** Indicates the PoE usage is less than 30W. **Blinks:** Indicates that the PoE usage is around 30W to 59W. **Lights:** Indicates the PoE usage is around/over 60W.
120W	Amber	**Blinks:** Indicates that the PoE usage is around 60W to 119W. **Lights:** Indicates the PoE usage is around/over 120W.
180W	Amber	**Blinks:** Indicates that the PoE usage is around 120W to 179W. **Lights:** Indicates the PoE usage is around/over 180W.
240W	Amber	**Blinks:** Indicates that the PoE usage is around 180W to 239W. **Lights:** Indicates the PoE usage is at the maximum.

■ Per 802.3at PoE+ 10/100/1000BASE-T Interface (Port 1 to Port 8)

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

■ Per 100/1000X SFP Slot (Port 9 to Port 10)

LED	Color	Function
LNK/ ACT	Green	**Lights:** Indicates the link through that port is successfully established at 1000Mbps or 100Mbps. **Blinks:** Indicates that the switch is actively sending or receiving data over that port.
1000	Amber	**Lights:** Indicates the link through that port is successfully established at 1000Mbps. **Off:** Indicates the link through that port is not established or is established at 100Mbps.