

Technisches Datenblatt

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 mit 8-Port 10/100/1000T

802.3at PoE+ und zwei 100/1000Base-X SFP Glasfaserschnittstellen für automatische Erkennung des SFP-Tranceivertyps

Redundante Versorgung, erweiterter Temperaturbereich, Jumbo Frames bis 9kB



Identifikation

Typ ET-SWGU8FP
Art.-Nr. [772025](#)

Produktversion

Datenblatt Version 00

Beschreibung

Beschreibung Unmanaged Gigabit Ethernet PoE+ Switch mit 8-Port 10/100/1000T für 802.3at PoE+ und zwei 100/1000Base-X Glasfaserschnittstellen für automatische Erkennung des SFP-Tranceivertyps.

Kommunikation

| | |
|----------------------------|---|
| 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 |
| Leitungslänge (Segment) | max. 100 m |
| Übertragungsrate | max. 1000 Mbit/s |
| Anschluss technik (Daten) | 8 x RJ45, 2 x SFP (mini-GBIC) |
| Durchsatz (Paket pro Sek.) | 14,8 Mpps @ 64 bytes |

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| | |
|-----------------------------|---|
| Statusanzeige Kommunikation | 3 x LED für System und Power: Grün: DC Power 1 Grün: DC Power 2 Rot: Alarm bei Stromausfall 8 x LED für PoE Kupfer Port (Port 1-8) Grün: LNK/ACT (10/100/1000 Mbps) Bernstein: PoE-in-Benutzung 2x LED für 100/1000X Glasfaseranschluss (Port 9-Port 10): Grün: LNK/ACT (100/1000Mbps) Bernstein: 1000 Mbps 4 x LED für die Nutzung des Glasfaseranschlusses Bernstein: 60 W, 120 W, 180 W und 240 W |
| Switch Architektur | Store-and-Forward |
| Jumbo Frame | 9 Kbytes |
| Gemeinsamer Datenpuffer | 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 |

Sicherheit

| | |
|-----------------------|-----------|
| ESD (Ethernet) | DC ± 6 KV |
| Surge (EFT for power) | DC ± 6 KV |
| Verpolungsschutz | ja |

Überwachung

| | |
|---------------------------------|---------------------|
| Überwachung Versorgungsspannung | Relais, 1 Schließer |
| Schaltstrom | 1 A @ DC 24 V |
| Schaltspannung | AC 120 V / DC 28 V |
| Isolationsspannung | DC 500 V |

Allgemeine Daten

| | |
|---------------------------------|--|
| Nennstrom | 240 W, DC: max. 7 A |
| Arbeitsspannungsbereich | DC 12–54 V, redundant |
| Leistungsaufnahme | 240 W Volllast Ethernet + PoE+ |
| Ausgangsleistung | 30 W @ 54 V (per PoE+ port) |
| Schutzart | IP30 |
| Relative Luftfeuchte (Betrieb) | 5 % – 95 % (keine Betauung) |
| Relative Luftfeuchte (Lagerung) | 5 % – 95 % (keine Betauung) |
| Gehäusematerial | Aluminium |
| Montage | Hutschienenmontage Wandmontage |
| Einbaulage | beliebig |
| Anschlussart | 6-polige steckbare Schraubklemme für Stromversorgung und Fehlerdiagnose AWG 20 – AWG 12 |
| MTBF | >100000 h |
| Maße (B×H×T) | 77,0 mm × 152,0 mm × 107,3 mm |
| Gewicht/Stück | 1,133 kg |

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VE (Stück)

1

Allgemeine Umgebungsbedingungen

Arbeitstemperaturbereich

-40 °C ... +75 °C

Lagertemperaturbereich

-40 °C ... +85 °C

Zertifizierungen/Normen

Zertifizierungen

CE

UKCA

FCC Part 15 Class A

Normen

EN 55024

EN 55032

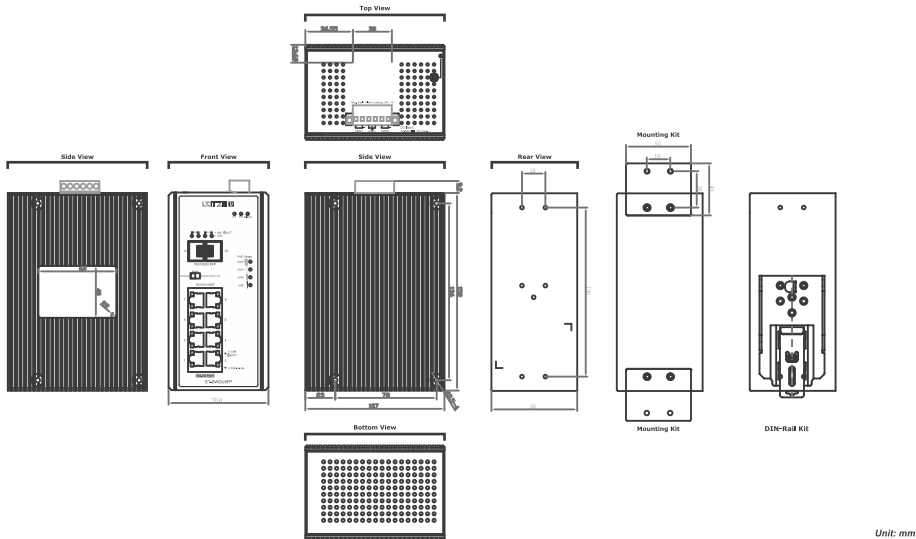
EN 55035

IEC 60068-2-27

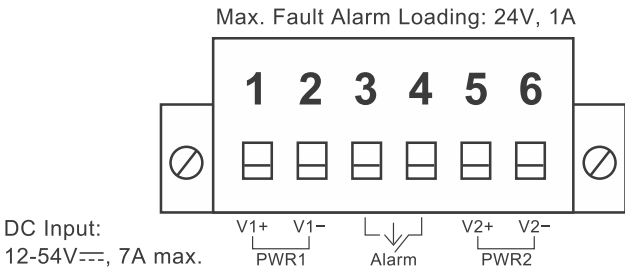
IEC 60068-2-32

IEC 60068-2-6

Maßzeichnung



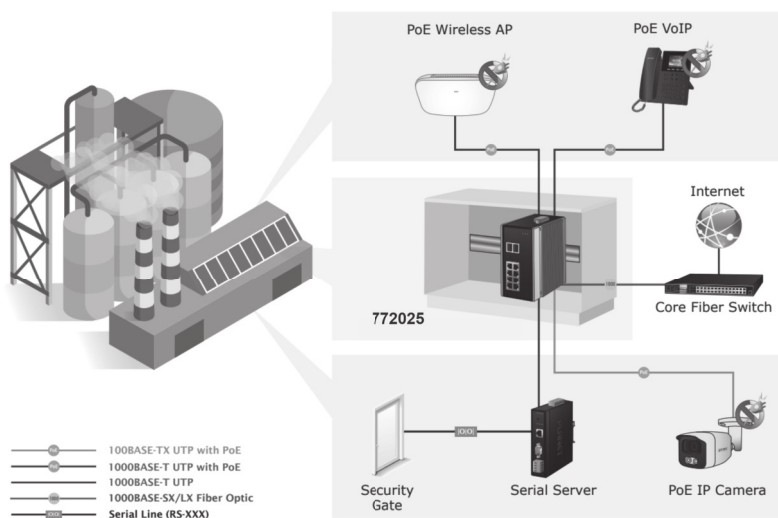
Anschlussbild



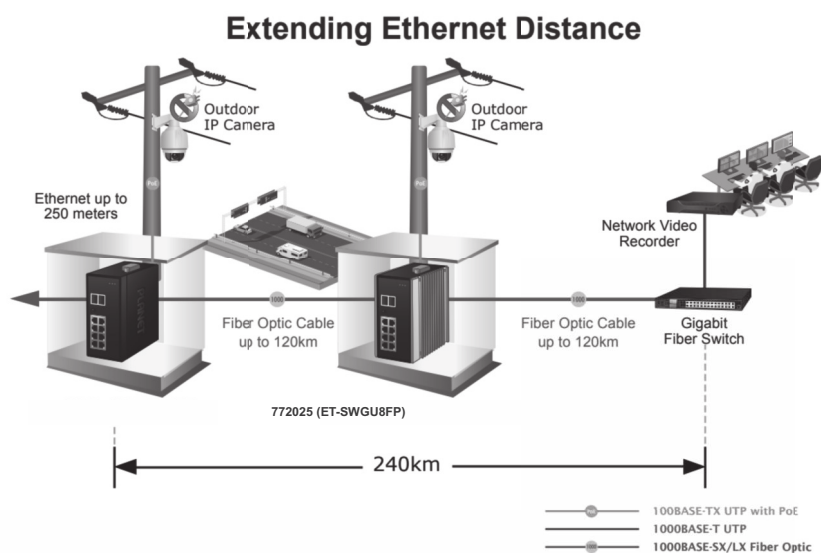
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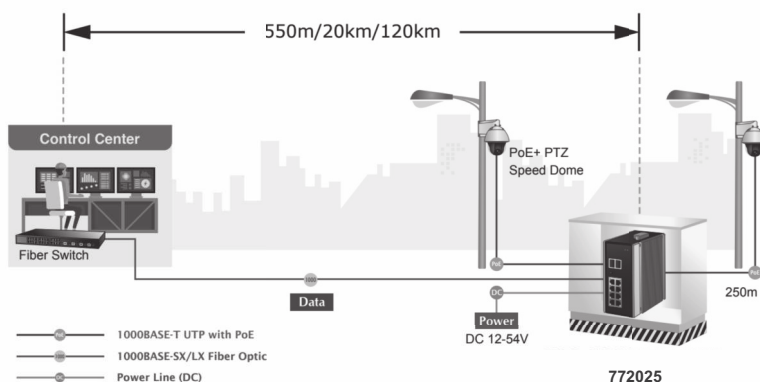
Anwendung



Anwendung



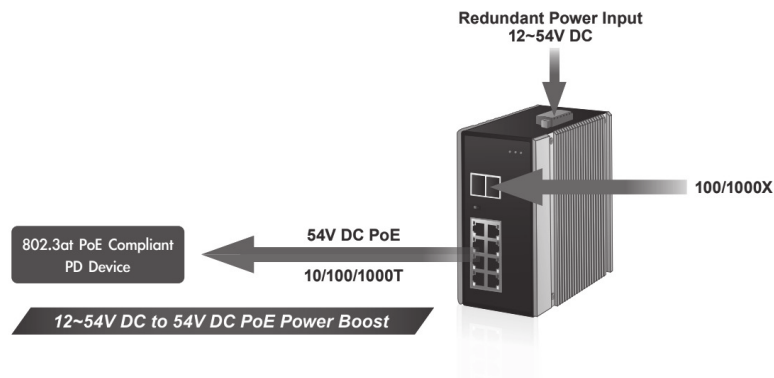
Anwendung



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Funktionsdiagramm



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. |