

## Bild / Picture



### 5-Port Micro Gigabit Ethernet PoE+ Switch mit PoE-Pass-Through Funktion

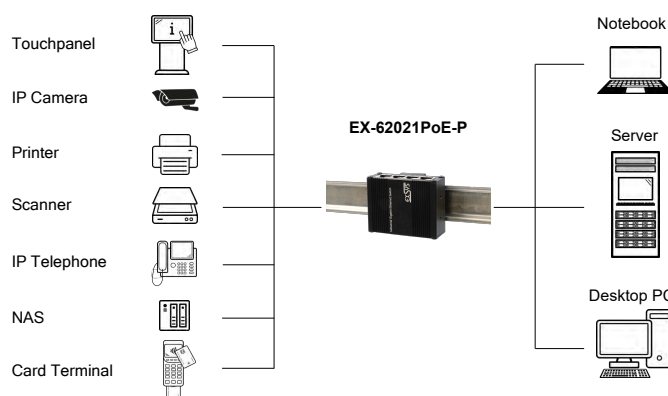
## Beschreibung

Der EX-62021PoE-P ist ein winziger, industrietauglicher 5-Port Gigabit Ethernet Switch mit PoE-Pass-Through. Er liefert an allen Ports volle Gigabit-Performance und versorgt bis zu vier angeschlossene Endgeräte zuverlässig mit Power over Ethernet (PoE). Die Stromversorgung erfolgt wahlweise über PoE++ (IEEE 802.3bt) oder über die integrierte DC-Buchse (48 VDC). Als non-PoE-Switch kann das Gerät alternativ über die USB-C-Buchse (5 VDC) betrieben werden. Jeder Downlink-Port stellt bis zu 30 W PoE-Leistung bereit – ideal für IP-Kameras, Access Points oder VoIP-Telefone. Dank robustem Metallgehäuse mit IP40-Schutzklasse, DIN-Rail-Montage und erweitertem Temperaturbereich von -40 °C bis +80 °C ist der Switch optimal für den dauerhaften Einsatz in anspruchsvollen Industrie- und Infrastrukturmgebungen ausgelegt.

## Merkmale

|                                                                                                                                |
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| <ul style="list-style-type: none"><li>• 5-Port Ethernet Switch 10/100/1000Base-T</li></ul>                                     |
| <ul style="list-style-type: none"><li>• PoE-Standards: IEEE 802.3af (PoE), IEEE 802.3at (PoE+), IEEE 802.3bt (PoE++)</li></ul> |
| <ul style="list-style-type: none"><li>• PoE-Ausgangsleistung: bis zu 30 W pro Port (max. 120 W Gesamtleistung)</li></ul>       |
| <ul style="list-style-type: none"><li>• PoE-Mode/Alternative B</li></ul>                                                       |
| <ul style="list-style-type: none"><li>• Spannungsversorgung über PoE++ oder DC-Buchse 48 VDC</li></ul>                         |
| <ul style="list-style-type: none"><li>• Stromversorgung alternativ über USB-C Port 5 VDC (kein PoE-Betrieb möglich)</li></ul>  |
| <ul style="list-style-type: none"><li>• Automatische Erkennung von PoE-Endgeräten (PD Detection)</li></ul>                     |
| <ul style="list-style-type: none"><li>• Auto-MDI/MDIX für einfache Verkabelung ohne Crossover-Kabel</li></ul>                  |
| <ul style="list-style-type: none"><li>• Auto-Negotiation, 10/100 Mbps Halb-/Voll duplex, 1000 Mbps Voll duplex</li></ul>       |
| <ul style="list-style-type: none"><li>• Jumbo Frame-Unterstützung bis 9kBytes</li></ul>                                        |
| <ul style="list-style-type: none"><li>• Robustes, sehr kompaktes Metallgehäuse, inkl. DIN-Rail Kit</li></ul>                   |
| <ul style="list-style-type: none"><li>• Erweiterter Betriebstemperaturbereich von -40°C bis +80°C</li></ul>                    |

## Anwendung / Application



### 5-Port Micro Gigabit Ethernet PoE+ Switch with PoE-pass-through funktion

## Description

The EX-62021PoE-P is a tiny, industrial-grade 5-port Gigabit Ethernet switch with PoE pass-through. It delivers full Gigabit performance on all ports and reliably supplies up to four connected end devices with Power over Ethernet (PoE). Power is supplied either via PoE++ (IEEE 802.3bt) or via the integrated DC socket (48VDC). As a non-PoE switch, the device can alternatively be operated via the USB-C socket (5 VDC). Each downlink port provides up to 30 W of PoE power – ideal for IP cameras, access points or VoIP telephones. Thanks to its robust metal housing with IP40 protection class, DIN-Rail mounting and an extended operating temperature range from -40 °C to +80 °C, the switch is optimally designed for continuous use in demanding industrial and infrastructure environments.

## Features

|                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• 5-Port Ethernet switch 10/100/1000Base-T</li></ul>                                     |
| <ul style="list-style-type: none"><li>• PoE standards: IEEE 802.3af (PoE), IEEE 802.3at (PoE+), IEEE 802.3bt (PoE++)</li></ul> |
| <ul style="list-style-type: none"><li>• PoE output power: up to 30 W per port (max. 120 W total power)</li></ul>               |
| <ul style="list-style-type: none"><li>• PoE mode/alternative B</li></ul>                                                       |
| <ul style="list-style-type: none"><li>• Power supply via PoE++ or DC socket 48VDC</li></ul>                                    |
| <ul style="list-style-type: none"><li>• Alternative power supply via USB-C port 5 VDC (no PoE operation)</li></ul>             |
| <ul style="list-style-type: none"><li>• Automatic detection of PoE end devices (PD detection)</li></ul>                        |
| <ul style="list-style-type: none"><li>• Auto-MDI/MDIX for easy cabling without crossover cables</li></ul>                      |
| <ul style="list-style-type: none"><li>• Auto-negotiation, 10/100 Mbps half/full duplex, 1000 Mbps full duplex</li></ul>        |
| <ul style="list-style-type: none"><li>• Jumbo frame support up to 9 kBytes</li></ul>                                           |
| <ul style="list-style-type: none"><li>• Robust, very compact metal housing, with DIN-Rail Kit</li></ul>                        |
| <ul style="list-style-type: none"><li>• Extended operating temperature range: -40°C to +80°C</li></ul>                         |

## System / OS



## Geprüft / Approved



## Verpackung / Packaging

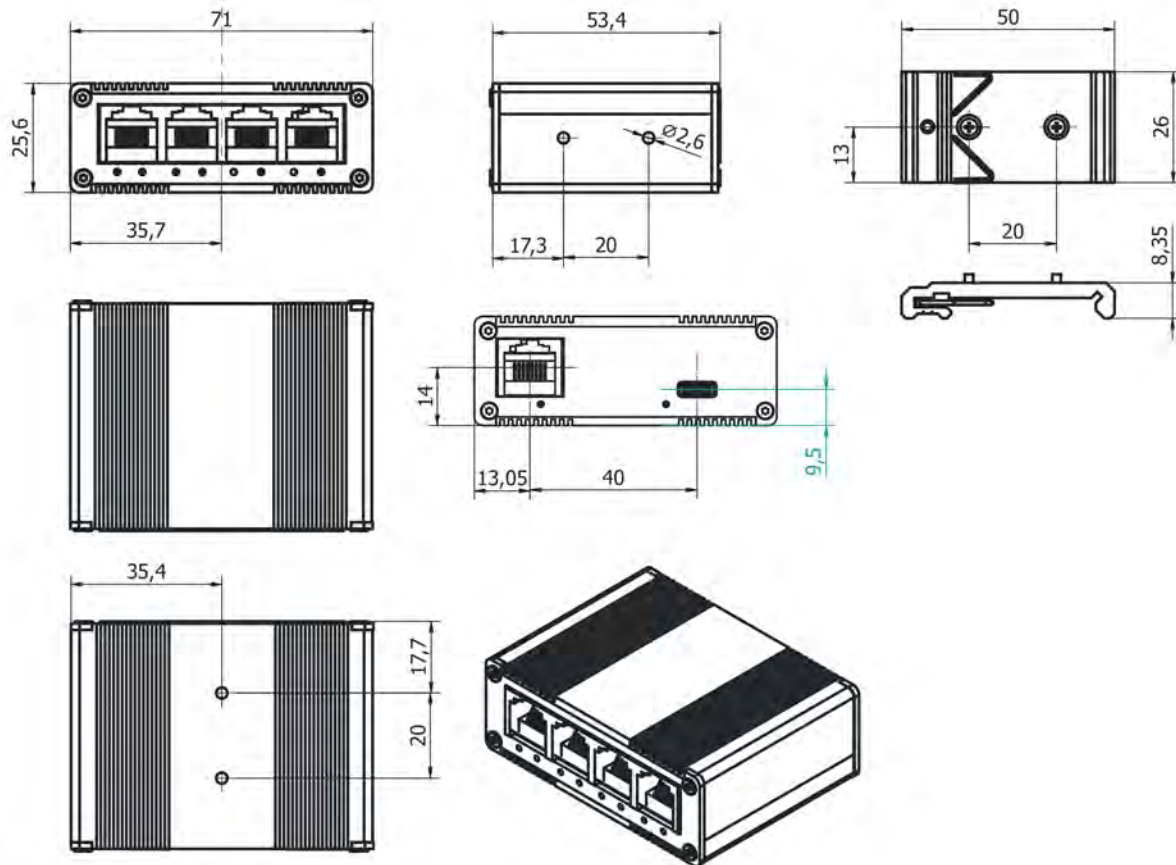


## Spezifikation

## Specification

|                                      |                                                                                                                                                                                                                                                                 |                                      |                                                                                                                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Datentransfer-Rate:</b>           | 10/100/1000 Mbit/s                                                                                                                                                                                                                                              | <b>Data transfer rate:</b>           | 10/100/1000 Mbit/s                                                                                                                                                                                                                                              |
| <b>Anschlüsse:</b>                   | 1x RJ45-Buchse Upstream<br>4x RJ45-Buchse PoE Downstream<br>1x DC-Buchse +48 V<br>1x USB-C Buchse +5 V                                                                                                                                                          | <b>Connectors:</b>                   | 1x RJ45 LAN Port Upstream<br>4x RJ45 PoE Port Downstream<br>1x DC Socket +48V<br>1x USB-C socket +5V                                                                                                                                                            |
| <b>Hardwaresysteme:</b>              | Ethernet 10/100/1000Mbps                                                                                                                                                                                                                                        | <b>Hardware system:</b>              | Ethernet 10/100/1000Mbps                                                                                                                                                                                                                                        |
| <b>Betriebssysteme:</b>              | Für alle Betriebssysteme geeignet                                                                                                                                                                                                                               | <b>Operating systems:</b>            | Suitable for all operating systems                                                                                                                                                                                                                              |
| <b>Ethernet Standards</b>            | IEEE 802.3 Ethernet<br>IEEE 802.3u Fast Ethernet<br>IEEE 802.3ab Gigabit Ethernet<br>IEEE 802.3x Full-Duplex Flow Control<br>IEEE 802.3az Energy Efficient Ethernet (EEE)<br>IEEE 802.3at Power over Ethernet Plus PSE<br>IEEE 802.3af Power over Ethernet Plus | <b>Ethernet Standards</b>            | IEEE 802.3 Ethernet<br>IEEE 802.3u Fast Ethernet<br>IEEE 802.3ab Gigabit Ethernet<br>IEEE 802.3x Full-Duplex Flow Control<br>IEEE 802.3az Energy Efficient Ethernet (EEE)<br>IEEE 802.3at Power over Ethernet Plus PSE<br>IEEE 802.3af Power over Ethernet Plus |
| <b>Forward &amp; Filtering Rate:</b> | 14'880 pps (10Mbps)<br>148'800 pps (100Mbps)<br>1'488'000 pps (1000Mbps)                                                                                                                                                                                        | <b>Forward &amp; Filtering Rate:</b> | 14'880pps (10Mbps)<br>148'800pps (100Mbps)<br>1'488'000pps (1000Mbps)                                                                                                                                                                                           |
| <b>Paketpuffer:</b>                  | 1 Mbits                                                                                                                                                                                                                                                         | <b>Packet Buffer:</b>                | 1Mbits                                                                                                                                                                                                                                                          |
| <b>Paketlänge:</b>                   | 10 Kbytes                                                                                                                                                                                                                                                       | <b>Packet Length:</b>                | 10Kbytes                                                                                                                                                                                                                                                        |
| <b>MAC-Adresstabelle:</b>            | 8000 Einträge                                                                                                                                                                                                                                                   | <b>MAC Address Table:</b>            | 8000 entries                                                                                                                                                                                                                                                    |
| <b>Switching Fabric:</b>             | 10 Gbps/non-blocking                                                                                                                                                                                                                                            | <b>Switching Fabric:</b>             | 10Gbps/non-blocking                                                                                                                                                                                                                                             |
| <b>Backplane Bandbreite:</b>         | 14 Gbps                                                                                                                                                                                                                                                         | <b>Backplane bandwidth:</b>          | 14Gbps                                                                                                                                                                                                                                                          |
| <b>Paket-Weiterleitungsrate:</b>     | 14'88 Mpps                                                                                                                                                                                                                                                      | <b>Packet forwarding rate:</b>       | 14'88Mpps                                                                                                                                                                                                                                                       |
| <b>Power Pin Belegung:</b>           | 4/5(+), 7/8(-)                                                                                                                                                                                                                                                  | <b>Power Pin Assignment:</b>         | 4/5(+), 7/8(-)                                                                                                                                                                                                                                                  |
| <b>PoE-Budget:</b>                   | Max. 120 W                                                                                                                                                                                                                                                      | <b>PoE Budget:</b>                   | Max. 120W                                                                                                                                                                                                                                                       |
| <b>MTBF:</b>                         | > 200'000 Stunden                                                                                                                                                                                                                                               | <b>MTBF:</b>                         | > 200'000 hrs                                                                                                                                                                                                                                                   |
| <b>Betriebstemperatur :</b>          | -40°C bis +80°C Celsius                                                                                                                                                                                                                                         | <b>Operating temperature :</b>       | -40°F up to 176°F                                                                                                                                                                                                                                               |
| <b>Lagertemperatur:</b>              | -40°C bis +85°C Celsius                                                                                                                                                                                                                                         | <b>Storage temperature:</b>          | -40°F up to 185°F                                                                                                                                                                                                                                               |
| <b>Rel. Luftfeuchtigkeit:</b>        | 5% bis 95%, nicht kondensierend                                                                                                                                                                                                                                 | <b>Rel. Humidity:</b>                | 5% to 95%, non-condensing                                                                                                                                                                                                                                       |
| <b>Schutzklasse:</b>                 | IP 40                                                                                                                                                                                                                                                           | <b>Protection class:</b>             | IP 40                                                                                                                                                                                                                                                           |
| <b>Stromversorgung:</b>              | PoE++ (PoE PSE)<br>+48 V (DC-Buchse)<br>+5 V (USB-C)                                                                                                                                                                                                            | <b>Power Supply:</b>                 | PoE++ (PoE PSE)<br>+48V (DC socket)<br>+5V (USB-C)                                                                                                                                                                                                              |
| <b>Leistungsaufnahme:</b>            | <6 W (bei PoE-Verwendung: <125 W)                                                                                                                                                                                                                               | <b>Power Consumption:</b>            | <6W (PoE in use: <125W)                                                                                                                                                                                                                                         |
| <b>Abmessung:</b>                    | 71.00 x 56.00 x 26.00 mm                                                                                                                                                                                                                                        | <b>Size:</b>                         | 71.00 x 56.00 x 26.00 mm                                                                                                                                                                                                                                        |
| <b>Gewicht:</b>                      | 110 g                                                                                                                                                                                                                                                           | <b>Weight:</b>                       | 110 g                                                                                                                                                                                                                                                           |
| <b>EAN:</b>                          | 4718359620287                                                                                                                                                                                                                                                   | <b>EAN:</b>                          | 4718359620287                                                                                                                                                                                                                                                   |
| <b>Ursprungsland:</b>                | China                                                                                                                                                                                                                                                           | <b>Country of origin:</b>            | China                                                                                                                                                                                                                                                           |
| <b>Lieferumfang:</b>                 | EX-62021PoE-P, DIN-Rail Kit (vormontiert), USB-A zu USB-C Kabel, Handbuch                                                                                                                                                                                       | <b>Packaging contents:</b>           | EX-62021PoE-P, DIN-Rail Kit (pre-assembled), USB-A to USB-C cable, Manual                                                                                                                                                                                       |

## Maße / Dimension



## Bilder / Pictures



## Zubehör / Accessories

|          |                                         |
|----------|-----------------------------------------|
| EX-49140 | Kabel / cable DC-Jack to Terminal Block |
|----------|-----------------------------------------|

EX-49140

