



SE-39

10/100/1000Mbps RJ45/ 100/1000Mbps SFP Fiber Optic Unmanaged Ethernet Media Converter

- ✓ Support for RJ45 10/100/1000 Mbps to 100/1000 Mbps FO SFP interfaces
- ✓ Operation in converter or switch mode
- ✓ JUMBO frame support
- ✓ Configurable with eight two-position ON/OFF switches
- ✓ LED status indication
- ✓ LFPT (Link Fault Pass-Through) function
- ✓ Operating temperature: -40° to +85°C
- ✓ Very small and compact housing dimensions
- ✓ Power supply 9-60VDC via DC plug

Features SE-39



Reliable

The SE-39 converter fully complies with the IEEE 802.3u 100BASE-TX/FX, IEEE 802.3ab 1000Base-T and IEEE 802.3z Gigabit Fiber standards. The use of **SE-39** converter allows to extend the network segment depending on the SFP insert used. The change of electrical transmission medium to optical fiber allows to increase the transmission range and completely eliminate the impact of interference such as electromagnetic field, stray currents, differences in ground potentials, etc.



Industrial

The SE-39 is designed to withstand extreme environmental conditions. The operating temperature of the device is -40° to $+85^{\circ}\text{C}$, so it can be mounted outdoors in covered areas.



Compact

Small size of SE-39 converter enables its installation in tight cabinets and recesses. Dimensions of the device are 90x53x35mm [WxHxD], moreover, converter is equipped with bracket for mounting on DIN TH35 rail.



Easy to use

SE-39 device is configured using eight two-position ON/OFF switches. Signalization of the device status is performed by additionally installed LEDs.

Technical specifications

Supported transmission standards

- ✓ IEEE 802.3 10Base-T Ethernet
- ✓ IEEE 802.3u 100Base-TX Fast Ethernet
- ✓ IEEE 802.3ab 1000Base-T
- ✓ IEEE 802.3z Gigabit Fiber

Supported protocols

- ✓ MDI/MDIX
- ✓ Full/half duplex
- ✓ LFPT (Link Fault Pass-Through)

Supported standards, recommendations and directives EMC, safety*

PN-EN 55024:2011/A1:2015-08	Electromagnetic Compatibility (EMC)	Information technology equipment Immunity characteristics - Permissible levels and methods of measurement.
EN 55022:2010/AC:2011	Electromagnetic Compatibility (EMC)	Information technology equipment. Radio disturbance characteristics. Methods of measurement and permissible levels.
PN-EN 60950-1:2007/A2:2014-05	Information technology equipment	Safety - Part 1: Basic requirements
PN-EN 60825-1:2014-11	Laser equipment safety	Part 1: Equipment classification and requirements.
EMC 2014/30/EU	Electromagnetic Compatibility Directive.	
LVD 2014/35/EU	Low Voltage Directive.	
IEC 61000-4-2	Electromagnetic Compatibility (EMC)	Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3	Electromagnetic Compatibility (EMC)	Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4	Electromagnetic Compatibility (EMC)	Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5	Electromagnetic Compatibility (EMC)	Part 4-5: Testing and measurement techniques - Surge immunity test
IEC 61000-4-6	Electromagnetic Compatibility (EMC)	Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8	Electromagnetic Compatibility (EMC)	Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
IEC 61000-4-11	Electromagnetic Compatibility (EMC)	Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test

* - The scope and list of supported standards may change as the device evolves

Ethernet optical ports

- ✓ 1x 100/1000Mbps,
- ✓ Slot for SFP inserts
- ✓ Parameters depending on the type of specified SFP insert
- ✓ Connection validity indication
- ✓ 155Mb and 1.25Gb speed support

Ethernet Electrical Ports

- ✓ 1x 10/100/1000Mbps, RJ-45
- ✓ Full/half duplex
- ✓ Auto-sense MDI/MDI-X
- ✓ Operation with or without autonegotiation
- ✓ Support for JUMBO frames up to 10KB

Physical characteristics

- ✓ Housing dimensions [HxWxD] 90x53x35 mm
- ✓ Weight up to 200g,
- ✓ Bracket for mounting on TH35 DIN rail

Power supply

- ✓ Supply voltage 9-60V DC
- ✓ Power consumption down to 0.5 mA.
- ✓ Connector type: Male DC plug

Environmental requirements

- ✓ Operating temperature: -40° to +85° C
- ✓ Humidity: 95%≤ at +20C°

Additional accessories

Designation	Transmission speed	Wavelength	Fiber optic cable type	Distance	Insert type	Connector type	Operating temperature	Notes
BTP-3124-L2TD	1.25 Gbps	1310 nm	MM/SM	2/20 km	SFP	LC	-40~85°C	100 Mbps support
BTP-3124-L4TD	1.25 Gbps	1310 nm	SM	40 km	SFP	LC	-40~85°C	100 Mbps support
BTP-3103-L2TD	155 Mbps	1310 nm	MM/SM	2/20 km	SFP	LC	-40~85°C	---
BTP-3103-L4TD	155 Mbps	1310 nm	SM	40 km	SFP	LC	-40~85°C	---

List of proposed power supplies for BITSTREAM devices

Designation of the power supply	Output voltage range	Nominal output power	Number of ports with PoE (15W)	Number of ports with PoE+ (30W)	Number of ports with PoE++ (60W)	Number of ports with PoE++ (90W)	Operating temperature C-standard T-industrial	Notes
	DC							
ZAS-24-20-R-T	24 V	20 W	0	0	0	0	-20°C ~ +70°C	No PoE support
ZAS-48V56-40-R-T	48 - 56 V	40 W	2	1	0	0	-20°C ~ +70°C	PoE support



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