

Qoltec[®]



USER MANUAL

Bi-directional Ethernet multimedia converter
2xRJ45 & 2xSFP

Model: 51946

Introduction

Thank you for your trust and for choosing our SFP & RJ45 multimedia converter. We are confident that this product will meet your expectations and prove to be an indispensable tool in your daily work. This user manual has been prepared to assist you with the installation and use of the device. It includes guidance on the correct use of our product. If you have any questions after reading this manual, please contact the NTEC sp. z o.o. customer service department.

About the product

The device allows simultaneous use of RJ45 and SFP ports. The ports operate within a single network and enable data transmission between connected devices. As a result, the converter can serve as an intermediary between Ethernet and fibre-optic devices. The converter can operate in both directions, i.e. convert a signal from RJ45 Ethernet to SFP and vice versa, from SFP to RJ45 Ethernet. SFP is a connector used mainly in network devices, such as switches and routers, to support various types of transmission, such as fibre-optic connections. It requires no additional configuration and is Plug&Play.

Product features

Discover new possibilities with the Qoltec device, which offers:

- Supports simultaneous data transmission and reception in Full-Duplex or Half-Duplex mode,
- Equipped with 2 RJ45 ports and 2 SFP ports,
- SFP data transfer speeds of up to 1 Gb/s,
- Metal casing,
- LED indicators for status and connection activity
- Compatible with CAT 5, 5e, 6, 7 and 8 patch cables
- Provides high resistance to electromagnetic interference and stable data transmission even over longer distances.

Safety instructions

Following the above guidelines will extend the device's service life, ensure its trouble-free operation and protect the user from potential hazards.

1. Place the switch in a dry and well-ventilated location, away from sources of moisture, high temperatures, dust and direct sunlight.
2. Monitor the device's temperature, particularly during intensive use of all ports. Ensure that the ventilation openings are clean and unobstructed.
3. Use only the supplied or recommended power supply unit with the appropriate specifications.
4. Do not open the device's casing – there are live components inside. Repairs may only be carried out by a qualified service centre.
5. Do not place heavy objects on the device.
6. Avoid tugging on Ethernet or power cables when connecting or disconnecting them.
7. Check the condition of the cables, plugs and ports regularly to ensure they are not damaged.
8. Clean the casing with a dry, soft cloth. Do not use chemicals or water.

LED indicators

The device is fitted with LEDs indicating the power status and the activity of individual connections.

Figure 1 in the appendix

LED indicator	Status	Function
PWR	On	The device is receiving power correctly.
1X	Lit	A connection has been established via RJ45 port 1.
1X	Flashing	Data is being transmitted via RJ45 port 1.
2X	Steady	A connection has been established via RJ45 port 2.
2X	Flashing	Data is being transmitted via RJ45 port 2.
Fibre1	Flashing	SFP port 1 is operating correctly / the optical connection is active.
Fibre2	Flashing	SFP port 2 is working correctly / the optical connection is active.

Installing the converter

1. Before starting the installation, ensure that all devices are switched off and that the SFP modules and fibre optic cable used are compatible in terms of transmission standard, fibre type, wavelength and range.
2. Do not connect the fibre optic cable directly to an empty fibre port — a suitable SFP module is required. It is recommended that you switch off the device before inserting or removing an SFP module.
3. Connect a network device, such as a switch, router, computer or NVR, to the RJ45 1X or RJ45 2X port using an Ethernet cable.
4. If you are using two connections, connect the second network device to an available RJ45 port and the second fibre-optic cable to an available fibre port.

An example application diagram is shown in *Figure 2 in the appendix*.

Maintenance

1. Before cleaning, disconnect the device from the mains supply,
2. Clean the casing with a soft, dry cloth,
3. Do not use water, detergents or chemicals,
4. Check regularly that the ventilation openings are not blocked or dirty,
5. Check the condition of Ethernet and fibre-optic cables and connectors,
6. Protect unused SFPs from dust,
7. Do not open the housing or attempt to repair the device yourself.

Disposal

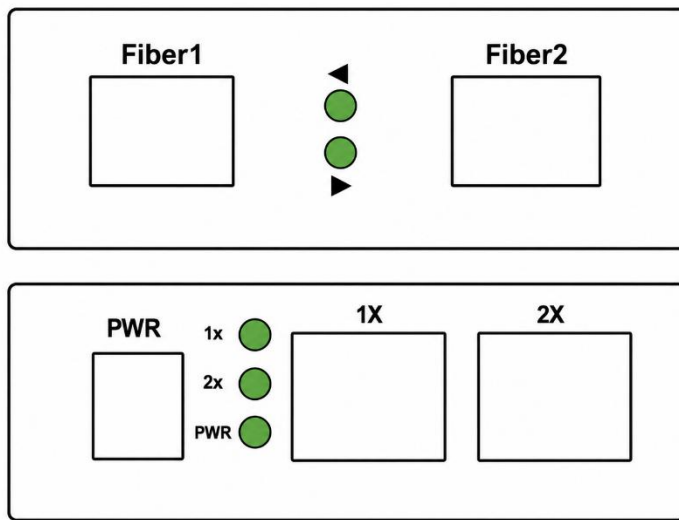
Do not dispose of the device in ordinary household waste. The converter should be disposed of in accordance with local regulations on the recycling of electronic equipment.

Warranty and service

The converter is covered by the manufacturer's warranty. If you experience any problems with the product, please contact the service department for assistance.

Attachment 1

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2

