

Qoltec[®]



User Manual

SWITCH Network Switch

Model: 52245, 52246, 52247, 52248

Introduction

Thank you for your trust and for choosing a Qoltec network switch. We are confident that this product will meet your expectations. This manual contains instructions on how to use the product. If you have any questions after reading this manual, please contact our Customer Service Department.

About the product

The QOLTEC network switch is a compact device with a simple design; it can work with virtually any network device – simply connect it to an Ethernet cable to distribute the signal to several separate devices. Thanks to its functionality, it enables efficient data exchange within a computer network in full-duplex mode. It is equipped with 5 or 8 RJ-45 ports, depending on the product selected, which allow for network connections using technology supporting data transmission at speeds of 10/100/1000 Mb/s. Each port features automatic line sequence crossover. Plug-and-play functionality.

Safety instructions

1. Before use, please read the user manual and familiarise yourself with the device's rated specifications.
2. Use only a power supply with a voltage and current rating that matches the values specified on the device or in its technical documentation.
3. Do not connect the device to a power supply with a voltage higher than the permissible limit – this may cause damage to the switch, overheating or a fire hazard.
4. The device is intended for indoor use in a dry and well-ventilated location.
5. Protect the device from moisture, water, high temperatures, direct sunlight and heat sources.
6. Do not block the ventilation openings and ensure there is sufficient space around the device to allow for free airflow.
7. Do not use the device if the casing, power cable, power supply unit or connectors are damaged.
8. Before cleaning, connecting or disconnecting cables, disconnect the device from the mains.

9. Use a soft, dry cloth for cleaning. Do not use chemicals or spray liquids directly onto the appliance.
10. Do not open the casing or attempt to repair or modify the appliance yourself. Repairs should only be carried out by a qualified service centre.
11. In the event of an unusual odour, smoke, excessive heating or malfunction, disconnect the device from the mains immediately.
12. During a thunderstorm, it is recommended that you disconnect the appliance from the mains and unplug the power cables if the installation does not have adequate surge protection.
13. The appliance should be placed in a stable location, out of reach of young children.
14. At the end of the appliance's service life, do not dispose of it with household waste. Take it to an appropriate collection point for waste electrical and electronic equipment.

User manual

1. Ensure that the switch is connected to the mains supply using a suitable power cable.
2. Check that all devices you wish to connect to the network are switched off.
3. Connect the network cables to the switch's RJ45 ports. Each port has a dedicated LINK/ACT indicator LED, so when you connect a cable to a port, check that the corresponding LED is lit, which indicates that the connection has been established and is working correctly.
4. Once all devices are connected, you can switch them on again. The switch automatically learns the MAC addresses of the devices on the network. There is no need to configure the MAC addresses manually.
5. If you experience any connection issues, check that the cables are connected correctly and that the indicator lights on the switch and the connected devices are working properly.
6. The switch is ready for use.

LED indicators

The LINK/ACT (Link/Activity) indicator informs the user of the network connection status on a given port. The 'LINK' indicator shows whether the port is physically connected to another network device, whilst the 'ACT' (Activity) indicator shows whether the port is actively being used to transfer data.

The 100/1000Mb/s indicator shows the current data transfer rate on a given port.

The device's power indicator informs the user whether the device is switched on and powered.

8-port switch	SWITH	Switched on	Network cable connection	Connection status
		6 LEDs will flash once	The corresponding indicator for port 1–8 in use on the network device should light up	LEDs 1–8 flash
Power LED		Always on	Always on	Always on

Technical specifications

Model	52245	52246	52247	52248
Connectors	5 x RJ45	8 x RJ45	5 x RJ45	8 x RJ45
Network standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x			
Cable type	Unshielded twisted pair (UTP) Category 5 or higher	Compatible with 10/100 BASE-TX, Category 5 or higher unshielded twisted pair	Unshielded twisted pair (UTP) Category 5 or higher	Compatible with 10/100 BASE-TX, Category 5 or higher unshielded twisted pair
Signal distance	150 m			
Bus bandwidth	1.2 Gbps	1.6 Gbps	12 Gbps	20 Gbps
Pass-through mode	The device forwards data directly			
SFP port	Not supported			
Data rate	At 10 Mbps – 14,880 p/s		At 100 Mbps – 14,880 p/s	
	At 100 Mbps – 14,800 p/s		At 1,000 Mbps – 14,800 p/s	
MAC address	1K (up to 1,024 addresses simultaneously)		2K (up to 2,000 addresses simultaneously)	4K (up to 4,000 addresses simultaneously)
Port features	MAC automation, IEEE 802.3X full-duplex, Flow control in half-duplex Ethernet networks			
Indicators	Each port has one LINK/ACT	Each port has two indicators: LINK/ACT and 100/1000 Mbps, as well as one device power		

	indicator LED and one device power indicator LED.	indicator LED.		
DC input	5V/ 0.5A		5–12V/0.6A	
Operating temperature	-10 to +55°C			
Dimensions	56 x 85 x 22 mm	56 x 127 x 22 mm	56 x 85 x 22 mm	56 x 127 x 22 mm

Maintenance

1. Use a dry cloth or compressed air to clean dust and dirt from the device. Avoid using damp materials, as these may cause a short circuit or damage the electronics.
2. The device should be used in well-ventilated rooms.
3. Check the cables and connectors regularly for damage.

Disposal

Dispose of the end-of-life device at an e-waste collection point. Do not dispose of the device with household waste.

Warranty

The device is covered by a 24-month warranty from the date of purchase, which covers repairs or replacement in the event of manufacturing defects. To claim under the warranty, you must provide proof of purchase (a receipt or invoice). The warranty does not cover damage resulting from misuse, incorrect installation or tampering by unauthorised persons. Should you require servicing, please contact an authorised customer service centre, which will provide professional diagnosis and repair. All servicing work should be carried out exclusively by qualified personnel to ensure the safety and proper functioning of the appliance. If you have any questions regarding the warranty or servicing, please contact our customer service department.