

Gigabit Single-Mode Dual-Fiber SC Media Converter, 20 km, 1310 nm, 1 Unit

Fiber Optics / Media Converters

Price per 1 unit · SC duplex + Gigabit RJ45 · Two single-mode fibers · Up to 20 km · 1310 nm · 5 V DC / 1 A. Remote equipment and fiber not included.



CONVERSOR DE MEDIOS GIGABIT Monomodo · Doble fibra · Hasta 20 km

1 unidad · SC dúplex · 1310 nm · DC 5 V / 1 A

KG-FMC-1G-DF-SC-20

KG-FMC-1G-DF-SC-20

Brand
KONGIA

Type
Gigabit Ethernet to dual-fiber single-mode optical media converter

Sales unit
1 converter; not a pair

Key features

- Sold per unit: One converter with an SC duplex optical port and a Gigabit RJ45 port. Remote-end equipment is purchased separately.
- 20 km · 1310 nm: SC optical port of 1.25 Gb/s with independent TX and RX.
- Gigabit Ethernet: RJ45 10/100/1000 Mbps, full/half-duplex autonegotiation and Auto MDI/MDIX.
- 9 Kbytes and 1 Mbit RAM: Jumbo frame support and buffer for network traffic.
- Visible status: Speed, link, activity, duplex and power indicators.
- Compact design: Metal housing of 94 × 70 × 26 mm, 5 V / 1 A power supply and consumption ≤ 3 W.

Technical specifications

Parameter	Specification
Brand	KONGIA
SKU	KG-FMC-1G-DF-SC-20
Type	Gigabit Ethernet to dual-fiber single-mode optical media converter
Sales unit	1 converter; not a pair

Technical specifications

Parameter	Specification
Ethernet interface per unit	1 × RJ45 10/100/1000 Mbps
Optical interface per unit	SC duplex port: 2 SC connections, independent TX and RX
Fiber type	Single-mode SMF, two fibers
Optical port speed	1.25 Gb/s
Wavelength	1310 nm
Optical reach	up to 20 km
Conversion	1000BASE-LX to Ethernet 10/100/1000BASE-T/TX
Autonegotiation	10/100/1000 Mbps on RJ45; full/half duplex
Automatic crossover	Auto MDI/MDIX
Copper cable	Cat.5e UTP/STP
Copper distance	Up to 100 m
Standards	IEEE 802.3, 802.3u, 802.3z, 802.3ab and 802.3x
Data buffer	1 Mbit RAM
Jumbo frames	Up to 9 Kbytes
Operation	Transparent conversion between copper and fiber media; Plug & Play
Power supply per unit	5 V DC / 1 A
Minimum / maximum voltage	5 V DC / 5 V DC
DC connector polarity	Center positive
Power consumption	≤ 3 W
Housing	Metal, with ventilation slots
Operating temperature	0 °C to 60 °C
Storage temperature	−20 °C to 70 °C
LED indicators	1000M, 100M, FIBER, TP, FDX and PWR
LED 1000M / 100M	Indicate the copper port Ethernet speed
Link / activity LEDs	Indicate connection and transmission/reception; flashing indicates activity
LED FDX	On: full duplex; off: half duplex

Technical specifications

Parameter	Specification
LED PWR	On with DC power; off without power
Optical module	Integrated, with SC connection; no additional SFP required
Contents	1 converter, 1 power adapter of 5 V DC / 1 A and installation documentation
Optical cable	Not included
Dimensions per unit	94 × 70 × 26 mm (depth × width × height)
KONGIA warranty	2 years

Applications

Interconnection of buildings and technical rooms using two single-mode fibers.

Extension of Ethernet switches, routers, computers and servers.

Transport of IP CCTV video and data to monitoring centers.

Integration of fiber links in campuses, offices and industrial installations.

TX → RX and RX → TX connection with compatible remote-end equipment (not included); each copper segment supports up to 100 m.

Packaging & contents

1 × SC dual-fiber single-mode Gigabit converter 1 × power adapter of 5 V DC / 1 A Installation documentation Fiber cable and remote-end equipment not included.

Warranty

2-year KONGIA warranty against manufacturing defects.