

Series 2 Fibre Media Converters

- SIL 2201-AA SIL 2206
- SIL 2201-BB SIL 2209
- SIL 2201-2T SIL 2212
- SIL 2203 SIL 2222
- SIL 2203-MM SIL 2000-AA



SIL 2200-AA



SIL 2203-MM
SIL 2201-AA, BB



SIL 2201-2T



SIL 2203
SIL 2222



SIL 2206



SIL 2209
SIL 2212

Fibre Media Converters

OVERVIEW

The Series 2 Mini fibre to Ethernet Media Converter provides flexible options for 100Mbps, Gigabit and 10 Gigabit Ethernet communication across fibre via the SFP or SFP+ port with intelligent configuration features such as link fault pass-through, auto laser shutdown, port speed setting, etc.

Its industrial-strength metal casing ensures superior heat dissipation and durability for 24/7 operation in demanding wiring closets and edge installations.

Advanced features including Link Fault Pass-Through (LFP), Auto Laser Shutdown (ALS) and configurable conversion modes provide enhanced reliability and fault detection. Integrated protection against short-circuit and overload conditions helps maximise uptime and safeguard connected infrastructure. Deploy a scalable, cost-effective and powerfully simple network backbone that enables you to focus on your business.

Features

- Ideal for confined spaces, and provides highly cost-effective solutions
 - Auto-Negotiation – automatically determines the best connection speed
 - Wall mountable using the integrated mounting holes
 - Rack mountable using the optional 19 inch 1U rack
 - Supports Fast Ethernet, Gigabit Ethernet and 10 Gigabit Ethernet fibre connectivity using SFP and SFP+ transceivers in single-mode or multimode configurations up to 120km
- 1/2.5G/10 Gigabit Ethernet LAN to 10 Gigabit Ethernet SFP+ port supports Single-mode and multimode, single or dual fibre options
 - Supports up to 16K Bytes Jumbo Frame (model dependent)
 - External 220V to a 5-12V power adapter
 - Built-in DIP switches support Link Fault Pass-Through (LFP), Auto Laser Shutdown (ALS), speed configuration and other advanced functions.

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Media Converter Technical Specifications

Part No.	SIL 2201 (AA,BB,2T)	SIL 2203 (MM)	SIL 2206	SIL 2209	SIL 2222	SIL 2212
Ethernet Interface						
Copper Port	1x 10/100Base-TX	1x 10/100/1000 Base-TX	2x 10/100/1000 Base-TX	—	1x 10/100/1000M /2.5G/5G/10G	—
Optical Slot	1x 100Base-X (SFP or 1x9 Transceiver SC,ST,FC connector)	1x 1000Base-X (SFP or 1x 9 Transceiver SC,ST,FC connector)	1x 1000Base-X SFP	2 x 100M/1.25G SFP	1x 1.25G/2.5G/5G /10G SFP/SFP+	2 x 100M/1.25G/2.5G / 5G/10G SFP/SFP+
Standard	IEEE802.3i IEEE802.3u IEEE 802.3x	IEEE802.3i IEEE802.3u IEEE802.3ab IEEE802.3z IEEE 802.3x		IEEE802.3an IEEE802.3ae	IEEE802.3i IEEE802.3u IEEE802.3ab IEEE802.3z IEEE802.3bz IEEE802.3an IEEE802.3ae	IEEE802.3an IEEE802.3ae
Jumbo Frame	12K		9K	12K	16K	
LEDs	TP/LNK, SPD, FX/LNK, PWR	TP/LNK, 1000M, FX/LNK, PWR	TP1/LNK, TP2/LNK, FX/LNK, PWR	SFP1, Loop, SFP2, PWR	TP/LNK, SPD, FX/LNK, PWR	SFP1, Loop, SFP2, PWR
MAC Address Table	2K					
Transmission Mode	Store and Forward (full/half duplex mode)					
Physical Characteristics						
Housing	Metal					
Dimensions	90mm×60mm×20mm (W x D x H)					
IP Rating	IP30					
Weight	0.12kg/0.26lb (Bare Hardware)					
Installation	Desktop, Wall Mounted, Rack(*require optional rack chassis)					
Environmental						
Temperature	Operating: 0 to 50℃ （32 to 122°F） Storage: -20 to +70℃ （-4 to +158°F）					
Humidity	5 to 95% noncondensing					
Altitude	<3000m(<10000 ft.)					
MTBF	100,819 Hours					
MTBF Standard	Telcordia SR-332 GB 25℃					
Heat Dissipation	10 BTU/h (100M/1G Models No SFP) 17 BTU/h （10 Gigabit Ethernet Models No SFP+）					
Cooling	Passive Cooling					
Noise Level	0 dBA					
Power Characteristics						
Power Input	1					
Operating Voltage	5-12VDC					
Power Consumption	3W Max(100Mb & 1Gb Models) 5W Max(10 Gigabit Ethernet Models)					
Package Contents						
Device	Mini fibre Media Converter					
Power Supply	5-12VDC Power Supply(with region specific plug)					
Documentation	Quick Start guide					

Additional Features

DIP Switch (SIL-2201 & SIL-2203)

DIP Switch	Name	Status	Description
#1	LFP	OFF	LFP Disable
		ON	LFP Enable
#2	ALS	OFF	ALS Disable
		ON	ALS Enable
#3	FX Reset	OFF	FX Reset Disable
		ON	FX Reset Enable
#4	FX Speed Set	OFF	Disable
		ON	FX 100M(SIL 2203)

DIP Switch (SIL-2206)

DIP Switch	Name	Status	Description
#1	Reserved	-	-
		-	-
#2	Jumbo Frame	OFF	Normal(1500 Bytes)
		ON	Up to 9KB
#3	Port Isolation	OFF	Disable
		ON	Enable
#4	FX Speed Set	OFF	FX 1000M
		ON	FX 100M

DIP Switch (SIL-2209)

DIP Switch	Name	Status	Description
#1	LFP	OFF	Disable
		ON	Enable
#2	ALS Function	OFF	Disable
		ON	Enable
#3	Media Conversion Mode	ON	1.TP=2.5G, FX=2.5G 2.TP=10/100/1000M, FX=1G
OFF			
#4		ON	TP: 10/100/1000/2.5G FX: 2.5G
		OFF	

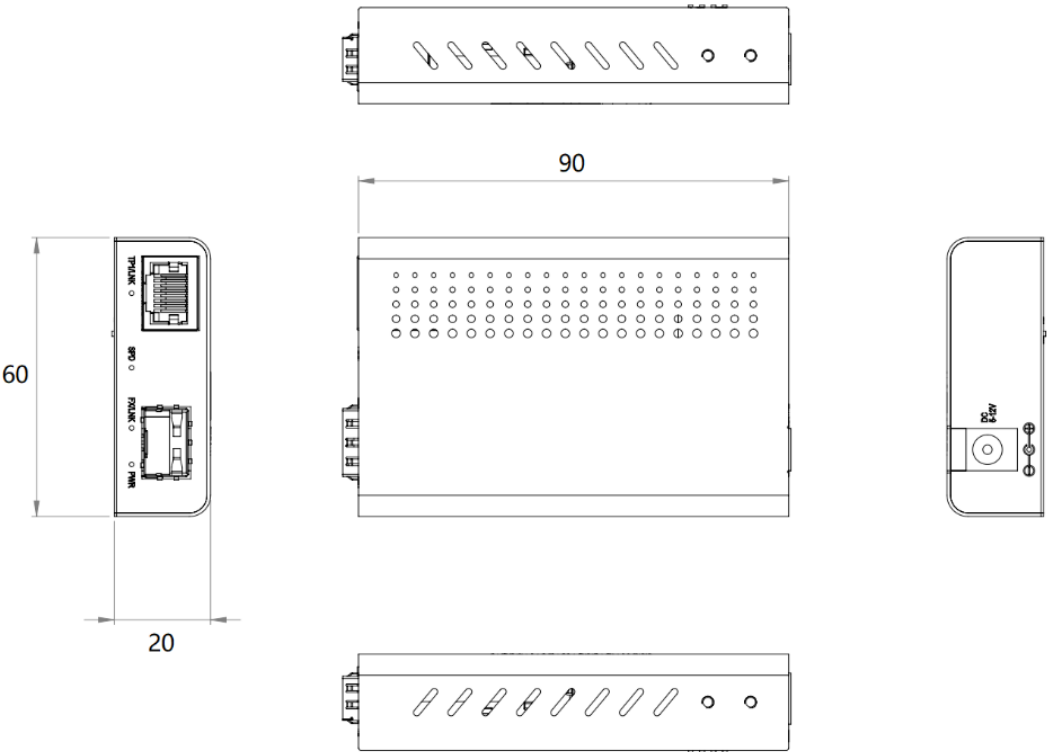
DIP Switch (SIL-2222)

DIP Switch	Name	Status	Description
#1	LFP	OFF	Disable
		ON	Enable
#2	ALS Function	OFF	Disable
		ON	Enable
#3	Media Conversion Mode	ON	1: TP=10 Gigabit Ethernet, FX=10 Gigabit Ethernet 2: TP=10/100/1000M, FX=1G
OFF			
#4		ON	TP=10/100/1000M/10 Gigabit Ethernet, FX=10 Gigabit Ethernet
		OFF	

Media Converter Dimensions

Dimensions

Unit: mm



Media Converter Chassis Technical Specifications

Chassis-based media independent converters and chassis capable of housing up to 12 fibre media converters. Each media converter’s housing is easily removable, and the PC board can be slid into the chassis.

Once the chassis is installed, multiple media converters are placed in an equipment rack alongside network devices they convert media for. This saves space and creates a tidy cabling appearance. By default, the device is powered by an AC power source, but an optional redundant power supply is available for maximum power availability.



SIL 2000-AA

This is a basic 19-inch rack that boasts simple operation, convenient hot-plug function, compatibility with mini fibre media converters of various speeds, and excellent cost effective deployment.

Power Characteristics	
Product Type	1RU 12 Slots fibre Media Converter Rack Chassis
Number of Slots	12
Input Power	AC 100V~240V, 1.5~3.0A, 50/60Hz, Redundant Power Supply
Output Power	DC 12V Per Slot, 5A
Power Consumption	36W Max
Dimensions (HxWxD)	44.5x485x270mm
Weight	3.2kg
Operating Temperature	0 °C to 60 °C
Storage Temperature	-20°C to 70°C
Humidity	90% Max, Non-condensing
Cooling	Brushless DC Fan
Compliance	FCC, CE, RoHS
Warranty	1 Year

Part Numbers & Accessories

Notes:

To avoid damage to the equipment and personal injury caused by improper use, please observe the following precautions:

- Keep the power off during installation, wear an anti-static wrist, and ensure that the anti-static wrist is in good contact with the skin to avoid potential safety hazards.
- The Switch/Media Converter can work normally under the correct power supply. Please confirm that the power supply voltage matches the voltage indicated by the Switch/Media Converter.
- Before powering on the Switch/Media Converter, please make sure that the power circuit is not overloaded, so as not to affect the normal operation of the Switch/Media Converter and even cause unnecessary damage.
- To avoid the risk of electric shock, do not open the case while the Switch/Media Converter is working, even if it is not charged, do not open it yourself.
- Before cleaning the Switch/Media Converter, pull out the power plug of the Switch/Media Converter. Do not wipe with a wet cloth. Do not use liquid to clean it.
- The equipment installed in the rack is generally from bottom to top to avoid overload installation.
- Avoid placing other heavy objects on the surface of the Switch/Media Converter to avoid accidents.

Ordering

Part Code	LAN	Fibre	Fibre Connector	Input Power
SIL 2201	1x 10/100Base-TX	1 x 100Base-X	LC(SFP) or SC,ST,FC (1x9)	DC 5-12V
SIL 2203	1x 10/100/1000Base-TX	1 x 1000Base-X	LC(SFP) or SC,ST,FC (1x9)	DC 5-12V
SIL 2206	2x 10/100/1000Base-TX	1 x 1000Base-X	LC(SFP)	DC 5-12V
SIL 2209	—	2 x 1.25G	LC(SFP)	DC 5-12V
SIL 2222	1x10/100/1000M/ 2.5G/5G/10 Gigabit Base-TX	1 x 1.25G/2.5G/5G /10 Gigabit Ethernet SFP/SFP+	LC(SFP+)	DC 5-12V
SIL 2212	—	2 x 100M/1.25G/ 2.5G/ 5G/10G	LC(SFP+)	DC 5-12V
Rack				
SIL 2000-AA	12 Slots Media Converter Chassis with Dual Power Supply			AC100V-240V