


























MEDIA CONVERTER CATALOG

- 100Mbps Series
- 1000Mbps Series
- Ethernet Media Converter
- Serial Media Converter
- Video Converter



100Mbps Media Converter Series

Pictures	Part Number	Port	Type	Connector	Fiber Port	Transmission	Wavelength	Distance	Function	Name	Page
	CTM-RC0202-AUB	1-port	10/100Base-Tx	RJ45	Duplex	Duplex	1310nm Multimode	2Km.	-	Media Converter	3
		1-port	100Base-Fx	SC							
	CTS-RC0202-AUB	1-port	10/100Base-Tx	RJ45	Duplex	Duplex	1310nm Singlemode	20Km.	-	Media Converter	4
		1-port	100Base-Fx	SC							
	CTS-RC0202-Mini	1-port	10/100Base-Tx	RJ45	Duplex	Duplex	1310nm Singlemode	20Km.	-	Media Converter, Mini	5
		1-port	100Base-Fx	SC							
	CTS-RC0202-2RJ	2-port	10/100Base-Tx	RJ45	Duplex	Duplex	1310nm Singlemode	20Km.	-	Media Converter	6
		1-port	100Base-Fx	SC							
	CTS-RC0202-A-SCB	1-port	10/100Base-Tx	RJ45	Simplex	Bidi	1310/1550nm Singlemode	20Km.	-	Media Converter	7
		1-port	100Base-Fx	SC							
	CTS-RC0202-B-SCB	1-port	10/100Base-Tx	RJ45	Simplex	Bidi	1550/1310nm Singlemode	20Km.	-	Media Converter	7
		1-port	100Base-Fx	SC							
	CTF-RC0202-T	1-port	10/100Base-Tx	RJ45	Simplex	Bidi	1310/1550nm Singlemode	20Km.	-	Media Converter	8
		1-port	100Base-Fx	SC							
	CTF-RC0202-R	1-port	10/100Base-Tx	RJ45	Simplex	Bidi	1550/1310nm Singlemode	20Km.	-	Media Converter	8
		1-port	100Base-Fx	SC							
	CTS-SC0202-LFP	1-port	10/100Base-Tx	RJ45	Duplex	Duplex	1310nm Singlemode	20Km.	LFP	Media Converter	9
		1-port	100Base-Fx	SC							
	CTS-SC0240-LFP	1-port	10/100Base-Tx	RJ45	Duplex	Duplex	1310nm Singlemode	40Km.	LFP	Media Converter	10
		1-port	100Base-Fx	SC							
	CTS-SC040-LFP	1-port	10/100Base-Tx	RJ45	Duplex	Duplex	1310nm Singlemode	40Km.	LFP	Media Converter, 12VDC	11
		1-port	100Base-Fx	SC							
	CTS-SC0120T-LFP	1-port	10/100Base-Tx	RJ45	Simplex	Bidi	1310/1550nm Singlemode	20Km.	LFP	Media Converter	12
		1-port	100Base-Fx	SC							
	CTS-SC0120R-LFP	1-port	10/100Base-Tx	RJ45	Simplex	Bidi	1550/1310nm Singlemode	20Km.	LFP	Media Converter	12
		1-port	100Base-Fx	SC							





100Mbps Media Converter Series

Pictures	Part Number	Port	Type	Connector	Fiber Port	Transmission	Wavelength	Distance	Function	Name	Page
	CTM-SC0202-002	1-port	10/100/1000Base-T	RJ45	Duplex	Duplex	850nm Multimode	0.5Km.	-	Media Converter	13
		1-port	1000Base-Sx	SC							
	CTG-SC0202-020	1-port	10/100/1000Base-T	RJ45	Duplex	Duplex	1310nm Singlemode	20Km.	-	Media Converter	14
		1-port	1000Base-LH	SC							
	CSM-LC0202-AGB	1-port	10/100/1000Base-T	RJ45	Simplex/Duplex	Bidi/Duplex	850/1310/1550nm SMF/MMF	up to 120Km.	-	Media Converter Case	15
		1-port	1000Base-X	SFP slot							
	CTG-SC0230	1-port	10/100/1000Base-T	RJ45	Duplex	Duplex	1310nm Singlemode	20Km.	-	Mini-Media Converter Case	16
		1-port	1000Base-X	SC							
	CTG-SC0220	1-port	10/100/1000Base-T	RJ45	Duplex	Duplex	1310nm Singlemode	20Km.	-	Media Converter	17
		1-port	1000Base-LH	SC							
	CTG-SC0202-T	1-port	10/100/1000Base-T	RJ45	Simplex	Bidi	1310/1550nm Singlemode	20Km.	-	Media Converter	18
		1-port	1000Base-LH	SC							
	CTG-SC0202-R	1-port	10/100/1000Base-T	RJ45	Simplex	Bidi	1550/1310nm Singlemode	20Km.	-	Media Converter	18
		1-port	1000Base-LH	SC							
	CSM-SC0220-LFP	1-port	10/100/1000Base-T	RJ45	Duplex	Duplex	1310nm Singlemode	20Km.	LFP	Media Converter	19
		1-port	1000Base-LH	SC							
	CSM-LC0202-LFP	1-port	10/100/1000Base-T	RJ45	Simplex/Duplex	Bidi/Duplex	850/1310/1550nm SMF/MMF	up to 120Km.	LFP	Media Converter Case	20
		1-port	1000Base-X	SFP slot							
	CSM-MCC014-AGB	-	14 Slot Chassis	-	-	-	-	-	-	Media Converter Chassis	21

100Mbps PoE Media Converter Series

Pictures	Part Number	Port	Type	Connector	Fiber Port	Transmission	Wavelength	Distance	Function	Name	Page
	BC-210024	1-port	10/100/1000Base-T	RJ45	Simplex/Duplex	Bidi/Duplex	850/1310/1550nm SMF/MMF	up to 120Km.	PoE, LFP	Media Converter Case PoE, 24W	22
		1-port	100/1000Base-X	SFP slot							
	BC-210065	1-port	10/100/1000Base-T	RJ45	Simplex/Duplex	Bidi/Duplex	850/1310/1550nm SMF/MMF	up to 120Km.	PoE, LFP	Media Converter Case PoE, 65W	22
		1-port	100/1000Base-X	SFP slot							

100Mbps Media Converter Series

Pictures	Part Number	Port	Type	Connector	Fiber Port	Transmission	Wavelength	Distance	Function	Name	Page
	BC-301	1-port	10/100Base-Tx	RJ45	-	-	-	-	TCP	Media Converter Serial Port	23
		1-port	RS232/422/485	Serial Port							
	BC-SMSC20KM	1-port	Fiber Port	SC	Duplex	Duplex	1310nm	20Km.	-	Media Converter Serial Port	24
		1-port	RS232/422/485	Serial Port							
	BC-SMSC02KM/1310T	1-port	Fiber Port	SC	Simplex	Bidi	1310/1550nm Singlemode	20Km.	-	Media Converter Serial Port	24
		1-port	RS232/422/485	Serial Port							
	BC-SMSC02KM/1550T	1-port	Fiber Port	SC	Simplex	Bidi	1550/1310nm Singlemode	20Km.	-	Media Converter Serial Port	24
		1-port	RS232/422/485	Serial Port							

	HD-TVI Video Fiber Converter 1080P and 720P										25
	HDMI conveter to Fiber Converter										26
	3G SDI Video to Fiber Converter										27

CTM-RC0202-AUB

**1-port 10/100Base-TX(RJ45) to
1-port 100Base-Fx/SC Duplex Multimode Fiber,
2Km, Media Converter**



Feature and Descriptions

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 2km by fiber optic cable

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward Back Bandwidth: 400Mbps MAC Address Size: 4Kbit Packet Buffer Size: 512Kbit Time Delay: <10us Frame: 1600bytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC Distance: MMF 2km, Wavelength 1310nm
LED indicators	FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 1A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTM-RC0202-AUB	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC Duplex Multimode Fiber, Wavelength 1310nm, 2Km, Media Converter

CTS-RC0202-AUB

**1-port 10/100Base-TX(RJ45) to
1-port 100Base-Fx/SC Duplex Singlemode Fiber,
20Km, Media Converter**



Feature and Descriptions

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 20km by fiber optic cable

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward Back Bandwidth: 400Mbps MAC Address Size: 4Kbit Packet Buffer Size: 512Kbit Time Delay: <10us Frame: 1600bytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC Distance: SMF 20km, Wavelength 1310nm
LED indicators	FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 1A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTS-RC0202-AUB	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC Duplex Singlemode Fiber, Wavelength 1310nm, 20Km, Media Converter

CTS-RC0202-MINI

**1- Port 10/100BaseTx(RJ45) to
1-Port 100Base-Fx/SC Duplex Singlemode, 20Km.
Ethernet Media Converter mini**

**Mini
series**



Feature

- Copper port support 10/100M, Auto-Cross for MDI/MDIX
- 100Base-FX SC fiber port up to 120km transmission
- Max packet length 2048bytes
- Simple LED indicators for monitoring working status
- 5~12Vdc power input and power consumption less than 2W
- Compact size 65x45x22mm
- IP30 plastic enclosure
- Plug-and-play operation
- Cost-effective and weight-less design
- CE/FCC/RoHS compliance

Application

- Network Communication/LAN
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

series is Mini Fast Media Converters, which extends the 10M, 100Mbps twisted-pair network segments up to 120km over fiber technology. It is widely used in ISP network solutions of FTTH, FTTC, and FTTBs, CCTV networks, or for small office network environments of enterprises.

Technical Data

Parameter	Specifications
Performance	
Standard	IEEE802.3, IEEE802.3u, IEEE802.3x
Data forwarding	Forward mode
Switch Capacity	400Mbps
Packet forwarding Rate	0.29Mpps
Packet length	2048bytes
Interface	
Copper Port	10/100M Auto-negotiation, RJ45 Auto-Cross for MDI/MDIX
	Cat5/Cat5e, ≤100m
Fiber Port	100M SC connector
	OS1/OS2 ≤20km; OM1/OM2 ≤2km
LED indicators	PWR, Fiber Link/act, Copper Link/act
Power Port	DC socket, Ø2.5mm
Electrical characteristics	
Input Power	5~12Vdc, Max.0.35A
Power Consumption	<2W
Physical characteristics	
Dimension	65x45x22mm
Protection	IP30
Environment	
Working Temperature	-20~60°C
Storage Temperature	-40~85°C
Relative Humidity	5%~95% (no condensation)
Power Adaptor	
Input Voltage	100-240Vac 50/60Hz
Output	5Vdc 1A

Applications



Order Part Number as Below.

Part Number.	Descriptions
CTS-RC0202-MINI	1- Port 10/100BaseTx(RJ45) to 1-Port 100Base- Fx/SC Duplex Singlemode, Wavelength 1310nm,20Km. Ethernet Media Converter mini

CTS-RC0202-2RJ

**2-port 10/100Base-Tx(RJ45) to
1-port 100Base-Fx/SC Duplex Singlemode Fiber,
20Km, Media Converter**



Feature and Descriptions

- 10/100Mbps auto-sensed, easily upgrade
- Providing two 10M/100Mbps TX ports
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

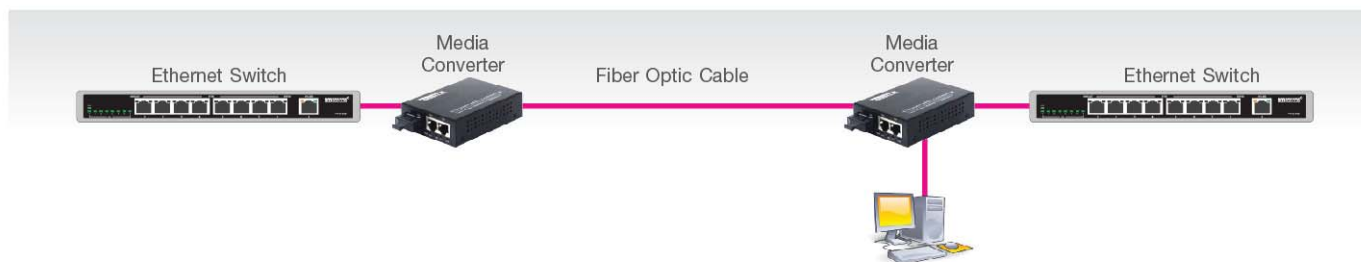
Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M Fiber Media Converter translates the signal from Two twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 20km by fiber optic cable

Specification

Hardware Specification	Descriptions
Technical Indexes	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Standards	Processing Type: Store and Forward Back Bandwidth: 400Mbps MAC Address Size: 4Kbit Packet Buffer Size: 512Kbit
Performance	Time Delay: <10us Frame: 1600bytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC Distance: SMF 20km, Wavelength: 1310nm
LED indicators	FX (Fiber link is in correct connection) FL/A (optical link/action) TL/A (twisted pairs link/action) 100 (100M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 1A AC Power Supply: 100V~ AC240V to 5V1A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTS-RC0202-2RJ	2-port 10/100Base-Tx(RJ45) to 1-port 100Base-Fx/SC Duplex Singlemode Fiber , Wavelength 1310nm, 20Km, Media Converter

CTS-RC0202-A/B-SCB

**1-port 10/100Base-TX(RJ45) to
1-port 100Base-Fx/SC Simplex Singlemode Fiber Bidi,
20Km, Media Converter**



Feature

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 20km by fiber optic cable

Technical Data

Parameter	Specifications
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward Back Bandwidth: 400Mbps MAC Address Size: 4Kbit Packet Buffer Size: 512Kbit Time Delay: <10us Frame: 1600bytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC Distance: SMF 20km, Bidi Wavelength A: Tx1310nm/Rx1550nm, Wavelength B: Tx1550nm/Rx1310nm
LED indicators	FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 1A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTS-RC0202-A-SCB	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC Simplex Singlemode Fiber , 20Km, Bidi Wavelength Tx1310nm/Rx1550nm, Media Converter
CTS-RC0202-B-SCB	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC Simplex Singlemode Fiber , 20Km, Bidi Wavelength Tx1550nm/Rx1310nm, Media Converter

CTF-RC0202-T/R

**1-port 10/100Base-TX(RJ45) to
1-port 100Base-Fx/SC Simplex Singlemode Fiber Bidi,
20Km, Media Converter**



Feature and Descriptions

- Automatically adapt to 10Mbps and 100Mbps environments, easy for network upgrade
- Supports full-duplex and half-duplex transmission modes, which can be automatically negotiated.
- Supports automatic crossover of twisted pair ports for easy system debugging and installation
- Supports longest 1552byte long packet transmission
- Support QOS to ensure VOIP packet transmission
- Support wall-mounted installation
- Low power consumption, low heat generation, stable operation for a long time
- Supports dual-fiber multi-mode, dual-fiber single-mode, and single-fiber single-mode multiple fiber ports to expand user requirements.

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M SM Single Fiber Converter is the conversion equipment of Ethernet optical-electronic signals between 10/100M UTP interface (TX) and 100M Fiber interface (FX). The traditional 10/100M Fast Ethernet can be extended to the distance from 100Meter to 20km through Single Optical Fiber link.

Specification

Hardware Specification	Descriptions
Access method	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QOS, IEEE802.1d Spanning Tree
Wavelength	Tx1310nm/1550nm, Rx1550/1310nm
Transmission distance	Single fiber Single mode : 20Km Category 5 twisted pair : 100m
Port	1 RJ45 port: Connect STP/UTP Category 5 twisted pair 1 fiber port: Single fiber single mode SC fiber port (fiber size 9 / 125μm)
Conversion method	Media conversion, storage forwarding / pass-through
MAC address table	1K
Buffer space	1Mbit
Flow control	Full dual state: flow control, half duplex status: back pressure mode
Delay	storage and forwarding: 9.6us, straight through: 0.9us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED indicator	POWER, FX LINK/ACT (fiber connection / action) FDX (FX full duplex mode), TP LINK/ACT (twisted pair connection / action) TP 100 (twisted pair 100M transmission rate), FX 100 (optical fiber 100M transmission rate) (external power supply)
Power supply	DC5V (external)
Power consumption	<2W
Working temperature	0~50°C
Storage temperature	-40~70°C
Working humidity	5%~90% non-condensing
Storage humidity	5%~90% non-condensing
Size	93*70*25mm



Order Part Number as Below.

Part Number.	Descriptions
CTF-RC0202-T	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC Simplex Singlemode Fiber , 20Km, Bidi Wavelength Tx1310nm/Rx1550nm, Media Converter
CTF-RC0202-R	1-port 10/100Base-TX (RJ45) to 1-port 100Base-Fx/SC Simplex Singlemode Fiber , 20Km, Bidi Wavelength Tx1550nm/Rx1310nm, Media Converter

CTS-SC0202-LFP

**1-port 10/100Base-TX(RJ45) to
1-port 100Base-Fx/SC, Duplex Singlemode Fiber, 20Km,
LFP function, Media Converter**



Feature and Descriptions

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- 100Mbps cut-through transmission
- LFP (Link Fault Pass-through) Function
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

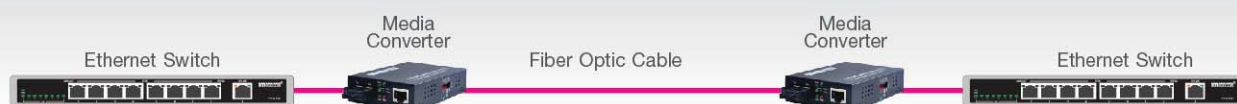
Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 20km by fiber optic cable, which supports LFP (Link Fault Pass-through) function

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward, Cut-through Back Bandwidth: 400Mbps MAC Address Size: 4Kbit Packet Buffer Size: 512Kbit Time Delay: <10us Frame: 1600bytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC, Distance: SMF 20km Wavelength: 1310nm
Dip-switch	TP port mode: Auto (default) or Force TP port speed: 100 or 10 when TP at Force TP port duplex: FDX or HDX when TP at Force LFP: LFP enabled (default) or disabled Fiber port duplex: 100 FDX (default) or 100 HDX
LED indicators	FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 1A AC Power Supply: 100V~AC240V to 5V1A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5~95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTS-SC0202-LFP	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC, Duplex Singlemode Fiber , Wavelength 1310nm, 20Km, LFP function, Media Converter

CTS-SC0240-LFP

**1-port 10/100Base-TX(RJ45) to
1-port 100Base-Fx/SC, Duplex Singlemode Fiber,
40Km, LFP function, Media Converter**



Feature and Descriptions

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- 100Mbps cut-through transmission
- LFP (Link Fault Pass-through) Function
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 40km by fiber optic cable, which supports LFP (Link Fault Pass-through) function

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward, Cut-through Back Bandwidth: 400Mbps MAC Address Size: 4Kbit Packet Buffer Size: 512Kbit Time Delay: <10us Frame: 1600bytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC, Distance: SMF 40km Wavelength: 1310nm
Dip-switch	TP port mode: Auto (default) or Force TP port speed: 100 or 10 when TP at Force TP port duplex: FDX or HDX when TP at Force LFP: LFP enabled (default) or disabled Fiber port duplex: 100 FDX (default) or 100 HDX
LED indicators	FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 1A AC Power Supply: 100V~AC240V to 5V1A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTS-SC0240-LFP	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC, Duplex Singlemode Fiber, Wavelength 1310nm, 40Km, LFP function, Media Converter

CTS-SC040-LFP

**1-port 10/100Base-TX(RJ45) to
1-port 100Base-Fx/SC, Duplex Singlemode Fiber,
40Km, LFP function, Media Converter**

12 VDC Power Supply



Feature and Descriptions

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- 100Mbps cut-through transmission
- LFP (Link Fault Pass-through) Function
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 40km by fiber optic cable, which supports LFP (Link Fault Pass-through) function

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward, Cut-through Back Bandwidth: 400Mbps MAC Address Size: 4Kbit Packet Buffer Size: 512Kbit Time Delay: <10us Frame: 1600bytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC Distance: 40km, Wavelength 1310nm
Dip-switch	TP port mode: Auto (default) or Force TP port speed: 100 or 10 when TP at Force TP port duplex: FDX or HDX when TP at Force LFP: LFP enabled (default) or disabled Fiber port duplex: 100 FDX (default) or 100 HDX
LED indicators	FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC4.5~18V AC Power Supply: 100V~AC240V to 12V1A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5~95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTS-SC040-LFP	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC, Duplex Singlemode Fiber, Wavelength 1310nm, 40Km, LFP function, 12VDC External Supply, Media Converter

CTS-SC0120T/R-LFP

**1-port 10/100Base-TX(RJ45) to
1-port 100Base-Fx/SC, Simplex Singlemode Fiber,
20Km, LFP function,Bidi, Media Converter**



Feature and Descriptions

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- 100Mbps cut-through transmission
- LFP (Link Fault Pass-through) Function
- Supporting extra-long packets up to 1600 bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100M Fiber Media Converter translates the signal from a twist-pair 10/100Base-TX cable to 100Base-FX fiber optic cable, extends data transmission distance from 100m via copper cables to 20km by fiber optic cable, which supports LFP (Link Fault Pass-through) function

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward, Cut-through Back Bandwidth: 400Mbps MAC Address Size: 4Kbit Packet Buffer Size: 512Kbit Time Delay: <10us Frame: 1600bytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC, Distance: SMF 20km Bidi Wavelength T: Tx1310/1550nm, Wavelength R: Tx1550/11310nm
Dip-switch	TP port mode: Auto (default) or Force TP port speed: 100 or 10 when TP at Force TP port duplex: FDX or HDX when TP at Force LFP: LFP enabled (default) or disabled Fiber port duplex: 100 FDX (default) or 100 HDX
LED indicators	FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 1A AC Power Supply: 100V-AC240V to 5V1A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTS-SC0120T-LFP	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC, Simplex Singlemode Fiber,Bidi Wavelength 1310/1550nm , 20Km, LFP function, Media Converter
CTS-SC0120R-LFP	1-port 10/100Base-TX(RJ45) to 1-port 100Base-Fx/SC, Simplex Singlemode Fiber,Bidi Wavelength 1550/1310nm , 20Km, LFP function, Media Converter

CTM-SC0202-002

**1-port 10/100/1000Base-T RJ45 to
1-port 1000Base-SX/SC Duplex Multimode, 0.5Km.
Media Converter**



Feature and Descriptions

- 10/100/1000Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100/1000Mbps store-and-forward
- Packet size up to 1916bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-T cable to 1000Base-SX fiber optic cable, extends data transmission distance from 100m via copper cables to 0.5km by fiber optic cable

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/SC IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward Back Bandwidth: 4Gbps MAC Address Size: 16Kbit Packet Buffer Size: 1Mbit Time Delay: <10us Frame: 1916bytes
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1000M Connector: SC Distance: MMF 0.5km, Wavelength: 850nm
LED indicators	FX (Fiber link is in correct connection) FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) 1000 (1000M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 2A AC Power Supply: 100V-AC240V to 5V2A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTM-SC0202-002	1-port 10/100/1000Base-T RJ45 to 1-port 1000Base-SX/SC Duplex Multimode, Wavelength 850nm, 0.5Km., Media Converter

CTG-SC0202-020

**1-port 10/100/1000Base-T RJ45 to
1-port 1000Base-LH/SC Duplex Singlemode, 20Km.
Media Converter**



Feature and Descriptions

- 10/100/1000Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100/1000Mbps store-and-forward
- Packet size up to 1916bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-T cable to 1000Base-LH fiber optic cable, extends data transmission distance from 100m via copper cables to 20km by fiber optic cable

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward Back Bandwidth: 4Gbps MAC Address Size: 16Kbit Packet Buffer Size: 1Mbit Time Delay: <10us Frame: 1916bytes
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1000M Connector: SC Distance: SMF 20km, Wavelength: 1310nm
LED indicators	FX (Fiber link is in correct connection) FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) 1000 (1000M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 2A AC Power Supply: 100V~ AC240V to 5V2A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTG-SC0202-020	1-port 10/100/1000Base-T RJ45 to 1-port 1000Base-LH/SC Duplex Singlemode, Wavelength 1310nm, 20Km., Media Converter

CSM-LC0202-AGB

**1-port 10/100/1000Base-T RJ45 to
1-port 1000Base-X/LC(SFP slot)
Media Converter Case**



Feature and Descriptions

- 10/100/1000Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100/1000Mbps store-and-forward
- Packet size up to 1916bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

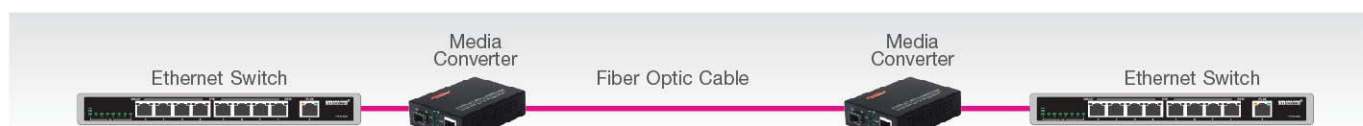
Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-T cable to 1000Base-X fiber optic cable, extends data transmission distance from 100m via copper cables to 120km by fiber optic cable

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward Back Bandwidth: 4Gbps MAC Address Size: 16Kbit Packet Buffer Size: 1Mbit Time Delay: <10us Frame: 1916bytes
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1000M Connector: LC(SFP slot) Distance: MMF 2km, SMF 20/40/80/100/120km, Bi-di: 20/40/80/100/120km
LED indicators	FX (Fiber link is in correct connection) FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) 1000 (1000M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 2A AC Power Supply: 100V~ AC240V to 5V2A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CSM-LC0202-AGB	1-port 10/100/1000Base-T RJ45 to 1-port 1000Base-X/LC(SFP slot) Media Converter Case

CTG-SC0230

**1 port 10/100/1000Base-T(RJ45) to
1 port 1000Base-LH/SC Duplex Singlemode Fiber,
20Km, Media Converter**

**Mini
series**



Feature and Descriptions

- Copper port support 10/100/1000M, Auto-Cross for MDI/MDIX
- 1000Base-X SC fiber port up to 20km/SM, 2km/MM transmission
- Full duplex and Half duplex back pressure auto-negotiation
- Support 16K Jumbo Frame
- Simple LED indicators for monitoring working status
- 5~12Vdc power input and power consumption less than 2W
- Compact size 65x45x22mm
- IP30 plastic enclosure
- Plug-and-play operation
- Cost-effective and weight-less design
- CE/FCC/RoHS compliance

Application

- Network Communication/LAN
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

MINI series is Mini Gigabit Media Converters, which extends the 10M, 100M, and 1000Mbps twisted-pair network segments up to 20km over fiber technology

Specification

Hardware Specification	Descriptions
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x
Data forwarding	Forward mode
Switch Capacity	4Gbps
Packet forwarding Rate	2.9Mpps
Flow Control	support
Jumbo Frame	16k
Interface	
Copper Port	10/100/1000M Auto-negotiation, RJ45 Auto-Cross for MDI/MDIX Cat5/Cat5e/Cat6, ≤100m
Fiber Port	1000M SC Duplex connector, Wavelength 1310nm OS1/OS2 ≤20km; OM1/OM2 ≤2km
LED indicators	PWR, Fiber Link/act, Copper Link/act
Power Port	DC socket, Ø2.5mm
Electrical characteristics	
Input Power	5~12Vdc, Max.0.35A
Power Consumption	<2W
Physical characteristics	
Dimension	65x45x22mm
Protection	IP30
Environment	
Working Temperature	-20~60°C
Storage Temperature	-40~85°C
Relative Humidity	5%~95% (no condensation)
Power Adaptor	
Input Voltage	100-240Vac 50/60Hz
Output	5Vdc 1A



Order Part Number as Below.

Part Number.	Descriptions
CTG-SC0230	1-port 10/100/1000Base-T(RJ45) to 1-port 1000Base-LH/SC Duplex Singlemode Fiber, Wavelength 1310nm, 20Km, Media Converter

CTG-SC0220

**1 port 10/100/1000Base-T(RJ45) to
1 port 1000Base-LH/SC Duplex Singlemode Fiber,
20Km, Media Converter**



Feature and Descriptions

- 10/100/1000Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100/1000Mbps store-and-forward
- Packet size up to 1916bytes
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication/LAN
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Serial 10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-T cable to 1000Base-X fiber optic cable, extends data transmission distance from 100m via copper cables to 100km by fiber optic cable

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward Back, Bandwidth: 4Gbps MAC Address Size: 16Kbit Packet, Buffer Size: 1Mbit, Time Delay: <10us Frame: 1916bytes
Copper Port	Data Rate: 10/100/1000M, Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1000M Connector: SC duplex, Distance: SMF 20km and MMF 2km Wavelength 1310nm
LED indicators	FX (Fiber link is in correct connection), FL/A (optical link/action) TL/A (twisted pairs link/action), FDX (FX full duplex) 100 (100M transmission rate of twisted pairs), 1000 (1000M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 2A AC Power Supply: 100V~ AC240V to 5V2A External Power Supply
	Operating temperature : -20~65°C Storage, Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CTG-SC0220	1-port 10/100/1000Base-T(RJ45) to 1-port 1000Base-LH/SC Duplex Singlemode Fiber, Wavelength 1310nm, 20Km, Media Converter

CTG-SC0202-T/R

**1-port 10/100/1000Base-T(RJ45) to
1-port 1000Base-LH/SC Simplex Singlemode Fiber Bidi,
20Km, Media Converter**



Feature and Descriptions

- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX
- Media conversion between 10/100/1000Base-T and 1000Base-SX/LX
- Supporting auto-sensing full-duplex and half-duplex operation
- Supporting auto-sensation of MDI/MDI-X, facilitating system commissioning and installation
- Support wall-mounted installation
- Supports dual-fiber multi-mode, dual-fiber single-mode, and single-fiber single-mode multiple fiber ports to expand user requirements.

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

Series 10/100/1000Mbps adaptive Gigabit Ethernet media converter adopts switching technology to fulfill media conversion. It complies with IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab standards. Presently it supports two types of media network connections: 10Base-T/100Base-TX/1000Base-T and 1000Base-SX/LX, inter-converting electrical signals of 10Base-T, 100Base-TX and 1000Base-T twisted pairs with optical signals of 1000Base-SX/LX. It helps two Ethernet endpoints communicate with each other through fiber up to 20KM. It can be used as a standalone unit or as a slide-in module to the 19" converter rack (up to 14 units) for use at a central wiring closet.

Specification

Hardware Specification	Descriptions
Access method	10/100/1000Mbps Gigabit Ethernet
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet IEEE802.3x Flow Control
Wavelength	Bidi, Tx1310nm/1550nm, Rx1550/1310nm
Transmission distance	Single fiber Single mode : 20Km
Port	Category 5 twisted pair : 100m 1 RJ45 port: Connect STP/UTP Category 5 twisted pair 1 fiber port: Single fiber single mode SC fiber port (fiber size 9 / 125μm)
Conversion method	Media conversion, storage forwarding / pass-through
MAC address table	1K
Buffer space	1Mbit
Flow control	Full dual state: flow control, half duplex status: back pressure mode
Delay	storage and forwarding: 9.6us, straight through: 0.9us
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED indicator	POWER (power supply), FX LINK (optical link action) TP LINK1000 (TP cable rate1000M), TP LINK100 (TP cable rate 100M) TP ACT (TP cable packet forwarding action), FDX (TP full duplex operation)
Power supply	DC5V (external)
Power consumption	<2W
Working temperature	0~50°C
Storage temperature	-40~70°C
Working humidity	5%~90% non-condensing
Storage humidity	5%~90% non-condensing
Size	93*70*25mm



Order Part Number as Below.

Part Number.	Descriptions
CTG-SC0202-T	1-port 10/100/1000Base-T(RJ45) to 1-port 1000Base-LH/SC Simplex Singlemode Fiber , 20Km, Bidi Wavelength Tx1310nm/Rx1550nm, Media Converter
CTG-SC0202-R	1-port 10/100/1000Base-T(RJ45) to 1-port 1000Base-LH/SC Simplex Singlemode Fiber , 20Km, Bidi Wavelength Tx1550nm/Rx1310nm, Media Converter

CSM-SC0220-LFP

**1-port 10/100/1000Base-T(RJ45) to
1-port 1000Base-LH/SC Duplex Singlemode, 20Km.
LFP function, Media Converter**



Feature and Descriptions

- 10/100/1000Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100/1000Mbps store-and-forward
- 1000Mbps cut-through transmission
- LFP (Link Fault Pass-through) Function
- Support 9K Jumbo Frame
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-T cable to 1000Base-X fiber optic cable, extends data transmission distance from 100m via copper cables to 20km by fiber optic cable, which supports LFP (Link Fault Pass-through) function.

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward, Cut-through Back Bandwidth: 4Gbps MAC Address Size: 16Kbit Packet Buffer Size: 1Mbit Time Delay: <10us Frame: 9Kbytes
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1000M Connector: SC Distance: SMF 20km, Wavelength: 1310nm
Dip-switch	LFP: LFP enabled (default) or disabled PT: 1000M Cut-through mode
LED indicators	FX (Fiber link is in correct connection) FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) 1000 (1000M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 2A AC Power Supply: 100V~ AC240V to 5V2A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5~95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CSM-SC0220-LFP	1-port 10/100/1000Base-T(RJ45) to 1-port 1000Base-LH/SC Duplex Singlemode, Wavelength 1310nm, 20Km. LFP function, Media Converter

CSM-LC0202-LFP

**1-port 10/100/1000Base-T(RJ45) to
1-port 1000Base-X/LC(SFP slot)
LFP function, Media Converter Case**



Feature and Descriptions

- 10/100/1000Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100/1000Mbps store-and-forward
- 1000Mbps cut-through transmission
- LFP (Link Fault Pass-through) Function
- Support 9K Jumbo Frame
- Supporting VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis installation

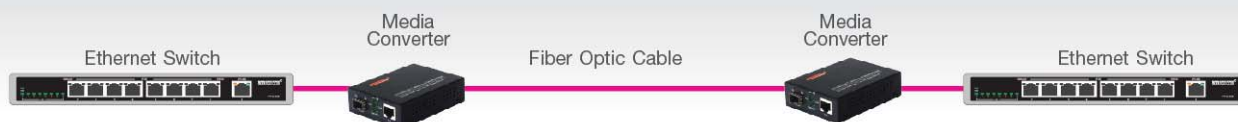
Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

10/100/1000M Fiber Media Converter translates the signal from a twist-pair 10/100/1000Base-T cable to 1000Base-X fiber optic cable, extends data transmission distance from 100m via copper cables to 120km by fiber optic cable, which supports LFP (Link Fault Pass-through) function. It can be used as a standalone unit or as a slide-in module to the 19" converter rack (up to 14 units) for use at a central wiring closet.

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10BaseT IEEE802.3u 100BaseT(X) IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree
Performance	Processing Type: Store and Forward, Cut-through Back Bandwidth: 4Gbps MAC Address Size: 16Kbit Packet Buffer Size: 1Mbit Time Delay: <10us Frame: 9Kbytes
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1000M Connector: LC(SFP slot) Distance: MMF 2km, SMF 20/40/80/100/120km, Bi-di: 20/40/80/100/120km
Dip-switch	LFP: LFP enabled (default) or disabled PT: 1000M Cut-through mode
LED indicators	FX (Fiber link is in correct connection) FL/A (optical link/action) TL/A (twisted pairs link/action) FDX (FX full duplex) 100 (100M transmission rate of twisted pairs) 1000 (1000M transmission rate of twisted pairs) PWR (power supply)
Power supply	Working power: DC5V 2A AC Power Supply: 100V~ AC240V to 5V2A External
Environment	Operating temperature : -20~65°C Storage Temperature: -40~85°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top, wall mounting, Chassis Dimension: 94*70*26mm (External power supply) Weight: 0.4kg (External power supply)



Order Part Number as Below.

Part Number.	Descriptions
CSM-LC0202-LFP	1-port 10/100/1000Base-T(RJ45) to 1-port 1000Base-X/LC(SFP slot), LFP function, Media Converter Case

CSM-MCC014-AGB

14 slot media converter Chassis
Support rack 19" with 2U



Feature and Descriptions

- The configuration of active/standby power supply ensures uninterruptible operation of the system.
- Provide two power supplies AC 220V enabling the system can work under many operating environments;
- Supporting simultaneous operation of several stand alone type media converters at different rates, which greatly improves system

Adaptability

- Each card supports hot swapping;

Application

- Network Communication
- FTTH / FTTB / FTTx
- ISP Backhaul Networking

cost-effective media converter rack (2U) widely used in the equipment room. Different types of stand alone type media converter developed by our company can be inserted into this rack, which total slots up to 14. It is furnished with two power supplies: main power supply and spare one, and supports its automatic switch-over.

Specification

Hardware Specification	Descriptions
Number of slots	14
Structure	2U rack
Power input	AC Voltage: AC 100~265V; frequency: 50/60 Hz
Power output	DC5V 12A
Ripple	≤20mv
Power configuration	Single power supply, or Dual power supply for warm backup mode
LED indication	POWER (power supply)
Max power consumption	95W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Maintaining temperature	-40~70°C
Maintaining humidity	5%~90% non-condensing
Dimensions of rack	427mm* 230mm* 90mm



1

Redundant Power Supply

2

Order Part Number as Below.

Part Number.	Descriptions
CSM-MCC014-AGB	14 Slot Media Converter Chassis, Redundant Power Supply with AC, 19" 2U

PoE Ethernet Media Converter

**1-Port 100/1000Base-X(SFP slot) to
1-Port 10/100/1000Base-T(RJ45) with PoE, 24W/65W**



Feature

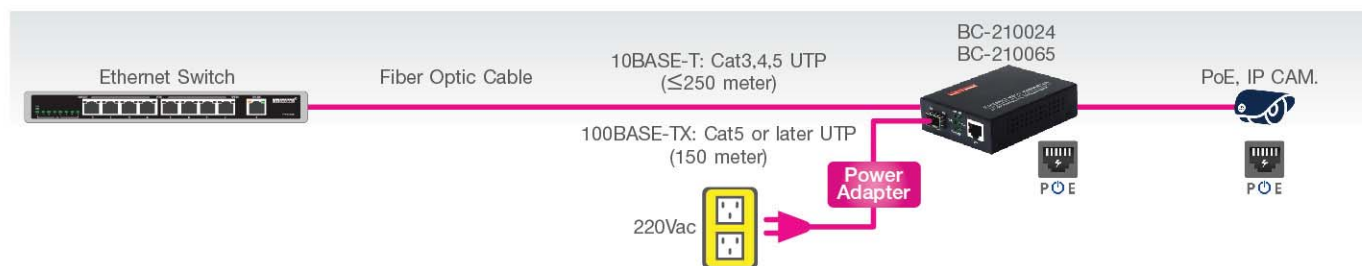
- IEEE 802.3af/at, PSE compliant
- Support LFP (Link-fault-pass-through) function
- Support 16K Jumbo Frame
- Flow Control for Video Application
- Support 100/1000Base-X by dip-switch
- RJ45 support auto MDI/MDI-X function
- Copper port support 10/100/1000M Auto-negotiation speed, half/full-duplex
- Support Ethernet ESD protection
- Desk-top and Wall- Mounted Installation (with kits)

Descriptions

POE Media Converter is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which is located 100M far from the PSE converter, which support IEEE802.3af/at. features a 100/1000Base-X fiber port and a 10/100/1000Base-TX twisted-pair port; flexible application for 100M or 1000M fiber optic network, easily upgrade from 100M into 1000M fiber network by changing SFP transceiver only.

Specification

Hardware Specification	Descriptions
Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX IEEE802.3af/at POE (PSE Compliance)
Performance	Processing Type: Store and Forward, Cut-through Operation Mode: Full/Half duplex mode Back Bandwidth: 4.0Gbps MAC Address table: 16Kbit Packet Buffer Size: 1Mbit Time Delay: <10us Jumbo Frame : Max.16K
Copper Port	10/100/1000Base-T with PoE+, RJ45, 100m POE PIN: 1/2/3/6 Cat5 UTP cable
Fiber Port	100/1000Base-X SFP Slot Fiber Cable: Single-mode, 8.3/125, 8.7/125, 9/125, 10/125μm
LED indicators	PWR, POE, FL/A, TL/A, GX, GE
Dip-Switch	1-ON Enable Link Fault Pass-Through OFF Disable Link 2-ON 16K Jumbo Frame, OFF Store and Forward 3-ON Flow control enable, OFF Flow control disable 4-ON FX Speed 100Mbps, OFF FX Speed 1000Mbps
Power	Working Voltage: 48~56VDC Power Consumption: ≤3W (un-loaded) Connector: DC Socket
Environment	Operating temperature : -20~70°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Installation: Desk-top / Wall-Mounted Dimension: 94*70*26mm Weight: 0.45KG



Ordering information

Part Number.	Descriptions
BC-210024	1-Port 100/1000Base-X (SFP slot) to 1-Port 10/100/1000Base-T(RJ45) with PoE, PSE, Ext. AC-DC48V0.5A., 24W
BC-210065	1-Port 100/1000Base-X (SFP slot) to 1-Port 10/100/1000Base-T(RJ45) with PoE, PSE, Ext. AC-DC52V1.25A , 65W

BC-301 Serial Device Server

**1-port serial RS-232/RS-422/RS-485 to
1-port 10/100Base-Tx(RJ45) self-adaptive Ethernet
interface Support TCP Server, TCP Client, TCP Auto,
UDP, Advanced TCP Server, Advanced UDP and other
operating modes**



Feature and Descriptions

- Adopt 32 bits ARM processor
- Support 10/100Base-T(X) self-adaptive Ethernet interface
- Support AUTO MDI/MDIX, which can be connected via crossover cable and straight-through cable
- Support 300bps-115200bps line speed and non-blocking communication Support low power consumption mode and high performance mode
- Support TCP Server, TCP Client, TCP Auto, UDP, Advanced TCP Server and Advanced UDP operating mode
- Support AT command, which is convenient for the secondary development of users Support DNS, which can achieve communication via domain name
- Support across gateway and routing communication
- Support virtual serial port drive access mode and automatic connection recovery after network interruption
- Flexible serial port data framing setting, which can satisfy user's various demands for data packets segmentation
- Support standard TCP/IP SOCKET application access
- TCP supports multi-connection, which allows maximum 4 users to monitor or manage the serial device simultaneously
- UDP supports single machine or multi-machine communication, which allows multiple users to monitor or manage the serial device simultaneously
- Support Windows configuration tool, serial port, WEB and other configuration forms Support local and remote system firmware upgrading

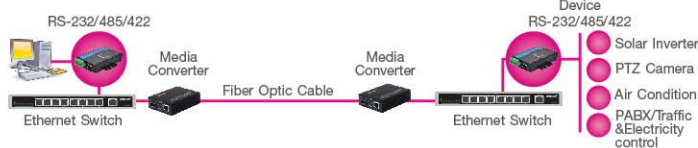
Specification

Serial device server that can make serial device be equipped with networking capability instantly and centrally manage the scattered serial devices and hosts via network. The product supports 1 RS-232/RS-422 /RS-485 to 1 100M Ethernet copper port. It adopts wall mounting to meet the requirements of different application scenes.

Serial device server supports multiple network protocols, such as TCP, UDP, ARP, ICMP, HTTP, DNS and DHCP protocol. It also possesses complete management functions, including Access Control, Rapid Configuration, Online Upgrading and so on. Each serial port supports 4 TCP or UDP session connections, and it also supports TCP Server, TCP Client, TCP Auto, UDP, Advanced TCP Server, Advanced UDP operating modes and AT, WEB access modes. Furthermore, supplied management configuration tool based on Windows platform can guide the user to manage and configure the device, achieving immediate networking of serial device via simple settings. It can provide users with good experience with friendly design of network management system interface, simple and convenient operation.

Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in PLC control and management, Building Automation System, Health Care Automation System, measuring instrument and environmental forces monitoring system.

Hardware Specification	Descriptions
Ethernet	Standard: 10Base-T, 100Base-TX Protocol: TCP, UDP, ARP, HTTP, ICMP, DHCP, DNS Rate: 10/100M automatic flow control, MDI/MDI-X autotuning Interface quantity: 1 Interface form: RJ45 Duplex mode: full/half duplex mode self-adaption Operating mode: 4 sessions, support TCP Server, TCP Client, UDP, TCP Auto, Advanced TCP Server and Advanced UDP Standard: EIA RS-232C, RS-485, RS-422
Serial Port	Quantity of serial port: 1 RS-232 or RS-485/422 serial port RS-232 signal: RXD, TXD, DTR, GND, DSR, RTS, CTS RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, GND, R+, R- Baud rate: 300-115200bps Data bit: 5bit, 6bit, 7bit, 8bit Parity bit: None, Even, Odd, Space, Mark Stop bit: 1bit, 1.5bit, 2bit Interface form: RS-232, adopt DB9 male; RS-485/422, adopt 5 pins 5.08mm pitch terminal blocks Directional control: RS-485 direction adopts data flow automatic control technology Load capacity: RS-485/422 end supports 32 points polling (customizable 128 points) Pull high/low resistor for RS-485: 4.7kΩ
Configuration	WEB configuration management, serial port AT command, Windows configuration tool
Security	Classification of User Permissions
Indicator	Power supply indicator, Ethernet port indicator, serial port indicator
Power Requirement	9-48VDC, 3 pins 5.08mm pitch terminal blocks Support reverse polarity protection
Power Consumption	No-load: 0.80W@12VDC Full-load: 0.84W@12VDC
Environmental Limit	Operating temperature range: -40~75 Storage temperature range: -40~85 Relative humidity: 5%-95% no condensation
Physical Characteristic	Housing: IP40 protection, metal Installation: wall mounting Dimension (W x H x D): 69mm×22mm×100mm Weight: 240g
Industrial Standard	IEC 61000-4-2 (ESD, Electro-static Discharge) Level 3 Air discharge: ±8kV Contact discharge: ±6kV IEC 61000-4-4 (EFT/B, Electrical Fast Transient/Burst), Level 3 Power supply: ±2kV Ethernet interface: ±1kV Serial port: ±1kV IEC 61000-4-5 (Surge), Level 2 Power supply: common mode ±2kV, differential mode ±1kV Ethernet interface: ±2kV Serial port: common mode ±1kV, differential mode ±1kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6



Order Part Number as Below.

Part Number.	Descriptions
BC-301	1-port serial RS-232/RS-422/RS-485 to 1-port 10/100Base-Tx(RJ45), Serial Device Sever

RS-232 / 422 / 485 to Fiber Converter

Extend RS-232/485/422 transmission up to 120Km with Single-mode and Multimode



Feature and Descriptions

- 1. Extend RS-232/485/422 transmission up to 120Km with Single-mode
- Transmit asynchronously, point to point, speed reach 500Kbps
- Examine signal speed automatically, zero delay time
- Plug-and-Play(hot-pluggable, data format auto-sensing & self-adjusting)
- Support RS-232/485/422 interface type, but only one RS-232/RS-485/RS-422 port can be connected at a given time
- 9~36VDC power supply input(2 bit terminal block)

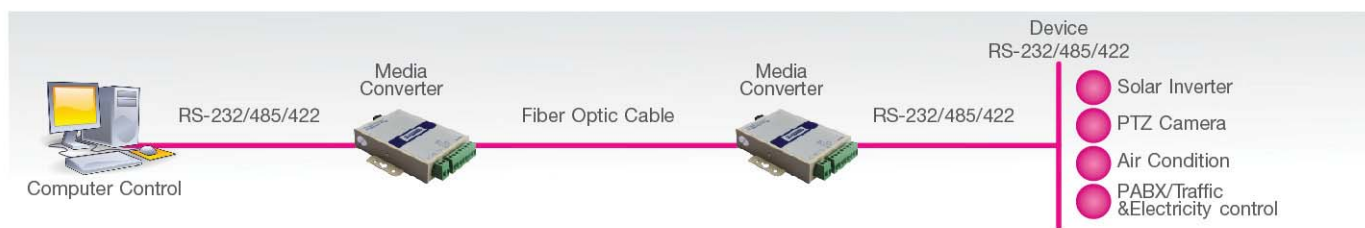
Application

- RS-232/485/422 transmission
- Traffic controlling
- Electricity controlling

RS-232/485/422 serial port carry transparent optic fiber modem of transmission to get end to user, no need patch cords set up, switch over automatically, and can detect and examine the signal speed automatically, zero delays time to transmit automatically. Adopt optic fiber transmit, have isolate protection, data privacy is fine, working steady, data, such threats to communication equipment as the wave is welled up and interfered with electromagnetically that the effective one has prevented the abominable environment from being struck by lightning, can work in the abominable and dangerous environment reliably. Can be used in occasions such as various industrial control, course controlling, traffic controlling and intellectual district, especially suit the bank, electricity and interfering with environment department and system with the special requirement electromagnetically.

Specification

Hardware Specification	Descriptions
RS-232/485/422	Standards: EIA RS-232C, RS-485, RS422 standard RS-232 signal: OUT(TX), IN(RX), GND RS-422 signal: T+, T-, R+, R-, GND RS-485 signal: D+, D-, GND Working mode: Asynchronism, point to point or multi point, 2 wire half-duplex, 4 wire full duplex Baud rate: 0~115.2Kbps, auto test serial signal rate detect signal speed automatically, zero delay time Transfer distance: RS-485/422 side: 1.2Km(9600bps) RS-232 side: no less than 5m Max number of drops: 128 nodes(RS-485/422) Port protect: 600W surge protection 15KV ESD protection Connectors: SC, FC or ST, optional Fiber optic cables: Single Mode: 8.3/125, 8.7/125, 9/125 or 10/125 um Multi-Mode: 50/125 62.5/125 or 100/125 um Transmission: 20, 40, 60, 80, 100, 120km(SM), 2km(MM) optional Wavelength: 850nm, 1310nm, 1550nm and Bidi Wavelength: Tx1310nm/1550nm/Rx1550nm/1310nm
Optic Fiber	Power input: 9~36VDC power input(2 bit terminal block) Consumption: 120mA
Power	Operating temperature: -10°C to 60°C Storage temperature: -40°C to 85°C Humidity: 5% to 95%(no condensation)
Environment	Dimensions: 100.0mmx69.0mmx22.0mm Material: Iron(shell) Color: White Weight: 230g Approvals: FCC, CE, RoHS approvals
Appearance	



Order Part Number as Below.

Part Number.	Descriptions
BC-MMSC02KM	RS232/422/485 to Fiber Media Converter, Multi-mode 2Km, SC connector
BC-SMSC20KM	RS232/422/485 to Fiber Media Converter Single-mode, 20Km, SC connector
BC-SMSC40KM	RS232/422/485 to Fiber Media Converter Single-mode, 40Km, SC connector
BC-SMSC60KM	RS232/422/485 to Fiber Media Converter Single-mode, 60Km, SC connector
BC-SMSC80KM	RS232/422/485 to Fiber Media Converter Single-mode, 80Km, SC connector
BC-SMSC100KM	RS232/422/485 to Fiber Media Converter Single-mode, 100Km, SC connector
BC-SMSC120KM	RS232/422/485 to Fiber Media Converter Single-mode, 120Km, SC connector
BC-SMSC02KM/1310T	RS232/422/485 to Fiber Media Converter Single-mode, single fiber, 20Km, SC connector (1310T/1550R)
BC-SMSC02KM/1550T	RS232/422/485 to Fiber Media Converter Single-mode, single fiber, 20Km, SC connector (1550T/1310R)
BC-SMSC40KM	RS232/422/485 to Fiber Media Converter Single-mode, single fiber, 40Km, SC connector
BC-SMSC60KM	RS232/422/485 to Fiber Media Converter Single-mode, single fiber, 60Km, SC connector
BC-SMSC80KM	RS232/422/485 to Fiber Media Converter Single-mode, single fiber, 80Km, SC connector

Video Converter Analog

**AHD/TVI/CVI To Fiber
720P and 1080P**

Compatible detail as below.
AHD-L stands for 960H
AHD-M stands for 720P
AHD-H stands for 1080P



Feature and Descriptions

- Aluminum alloy shell, wall mount or 2U/4U chassis
- All interface adopt three grade anti-static, lightning protection
- Wide optical dynamic range and advanced adaptive technology, transmission distance can reach up to 60Km
- Surface mount devices ensure products high stability, high reliability
- Low electromagnetic interference (EMI) and radio frequency interference (RFI)
- Abundant LED indicators, diagnostic indication
- Plug and Play, hot plugged
- Small size, low power consumption, strong interference resistance
- Industry-grade of operating temperature from -40°C to 75°C, which is applied to the different working environment
- Compatible with TVI,CVI,AHD

Application

- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Public Security Surveillance
- High Way & Toll Station Surveillance
- Industrial Closed Circuit Television Surveillance
- Military monitoring (warehouses, border guards, defense)

TVI optic transceiver can transmit 1 channel TVI over one multimode or single-mode optical fiber. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment. Compatible with 720p/50, 720p/60, 1080p/25, 1080p/30. Lossless non-compression real time transmission.

Wiring Diagrams



Optical

Wavelength	1310nm&1550nm
Output Power	-8~-3dBm
Optic fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Rx sensitivity	-22dBm
Optical connector	FC,ST,SC (optional)
Distance	0~2Km(1310nm multi mode) 0~20Km(1310nm Single mode)

Video

Number of Channels	1,2,4,8,16
Input/output impedance	BNC port, 75Ω
Standard video input/output voltage	1.0Vp-p
Video Bandwidth	60MHz(1080P), 30MHz(720P)
Sampling Bandwidth	8bit
Sampling Frequency	120MHz
Rise and Fall time	<0.8ns
Optical Signal Intrinsic Jitter	<0.2 UI
Differential Gain	<±1.5%
Differential Phase	<±1°
Connector / Coaxial cable Distance	BNC / 350meterst

Other	1 Channel	2/4Channel	8 Channel	16 Channel
Power	DC5V 2A	DC5V 2A	DC5V 3A	AC220V
Power Consumption	5W	5W	7.5W	15W
Temperature	-40°C ~75°C	-40°C ~75°C	-40°C ~75°C	-40°C ~75°C
Humidity	10%~90% RH	10%~90% RH	10%~90% RH	10%~90% RH
Unit Weight	0.75Kg(pair)	0.75Kg(pair)	1.5Kg(pair)	7.5Kg(pair)
Dimension	103mmx103mmx27mm	175mmx153mmx28mm	167mmx153mmx44mm	483x270x48mm
Installation	Wall mount or 2U 19"Chassis	Wall mount or 4U 19"Chassis	Wall mount or 4U 19"Chassis	1U 19"Chassis
MTBF	Greater than or equal≥ 100000Hours	Greater than or equal≥ 100000Hours	Greater than or equal≥ 100000Hours	Greater than or equal≥ 100000Hours

Order Part Number : 720P

Model Name	Descriptions	Fiber Port	Resolution	Units
BC-TVI0100-720(VT/VR)	1channel TVI to fiber converter	Singlemode	720P	pairs
BC-TVI0101-720(VT/VR)	1 channel TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	720P	pairs
BC-TVI0200-720(VT/VR)	2 channels TVI to fiber converter	Singlemode	720P	pairs
BC-TVI0201-720(VT/VR)	2 channels TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	720P	pairs
BC-TVI0400-720(VT/VR)	4 channels TVI to fiber converter	Singlemode	720P	pairs
BC-TVI0401-720(VT/VR)	4 channels TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	720P	pairs
BC-TVI0800-720(VT/VR)	8 channels TVI to fiber converter	Singlemode	720P	pairs
BC-TVI0801-720(VT/VR)	8 channels TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	720P	pairs
BC-TVI1600-720(VT/VR)	16 channels TVI to fiber converter	Singlemode	720P	pairs
BC-TVI1601-720(VT/VR)	16 channels TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	720P	pairs

Order Part Number : 1080P

Model Name	Descriptions	Fiber Port	Resolution	Units
BC-TVI0100-1080(VT/VR)	1channel TVI to fiber converter	Singlemode	1080P	pairs
BC-TVI0101-1080(VT/VR)	1 channel TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	1080P	pairs
BC-TVI0200-1080(VT/VR)	2 channels TVI to fiber converter	Singlemode	1080P	pairs
BC-TVI0201-1080(VT/VR)	2 channels TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	1080P	pairs
BC-TVI0400-1080(VT/VR)	4 channels TVI to fiber converter	Singlemode	1080P	pairs
BC-TVI0401-1080(VT/VR)	4 channels TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	1080P	pairs
BC-TVI0800-1080(VT/VR)	8 channels TVI to fiber converter	Singlemode	1080P	pairs
BC-TVI0801-1080(VT/VR)	8 channels TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	1080P	pairs
BC-TVI1600-1080(VT/VR)	16 channels TVI to fiber converter	Singlemode	1080P	pairs
BC-TVI1601-1080(VT/VR)	16 channels TVI with 1channel Reverse RS485 Data to fiber converter	Singlemode	1080P	pairs

BC-1112T and BC-1112R

HDMI Video to Fiber Converter

1-ch HDMI+1-ch BIDI Audio+1-ch BIDI RS232



Feature and Descriptions

- Full digital, Uncompressed HD optical fiber transmission
- Exact match HDMI1.3b standard, HDCP1.1 protocol, support CEC
- With Independent analog audio
- Automatic identification and configure display mode
- Support resolution up to 1080P60 and below
- Single mode,multi mode optical transmission
- ESD protection circuit inside to ensure the ESD damage.
- Easily to installation, plug and play, no need to set up

Application

- Intelligence Traffic Monitor system ITS
- Metro/High-speed way monitor system
- Electric power/ hydraulic Safety Monitor system
- Industrial mining enterprises Security System
- Long-distance multimedia teaching/ Campus Security
- CATV long-distance transmission
- Building Automatic Security System

HDMI Optical transmitter and receiver adopts the uncompressed digital HD video and high-speed digital optical fiber transmission technology advanced,It can transfer signal source (computer signal source,VGA signal source high digital DVD/DVR and various resolution HDMI signal...) to long distance

Specification

Hardware Specification	Descriptions
Temperature	-5 to +35°C
Humidity	5 to 90 % RH (no condensation)
The signal of Input and output	HDMI
Video format	1920*1080P60 1920*1080P50 1920*1080P30 1920*1080P25 1920*1080P24 1920*1080I60 1920*1080I50 1280*720P60 1280*720P50
Transmission distance	10KM / 20KM / 40KM / 60KM
Audio of input and output	3.5MM audio
Input and output audio format	44.1K,48K,96K,176K,192K
Input voltage	DC 5V2A, inside+ outside-
Power consumption	HDMI Receiver 2.5W, HDMI Transmitter 2.5W
Operating Temperature	-10°C ~ 55°C
Humidity	0%~95% (non-condensing)
Physical Characteristics	Single Device Dimension: 16.7*11.3*2.8cm(device); Single Device Weight: 0.35kg(device) Pairs Packing Dimension: 34.5*21*7.5cm(packing) Pairs Packing Weight: 1.1kg(transmitter+receiver in packing)



Order Part Number as Below.

Part Number.	Descriptions
BC-112T	1-ch HDMI+1-ch BIDI Audio+1-ch BIDI RS232 to Fiber; with SFP module Bidi 20km LC; Transmitter
BC-112R	1-ch HDMI+1-ch BIDI Audio+1-ch BIDI RS232 to Fiber; with SFP module Bidi 20km LC; Receiver

BC-200T, BC-200R BC-300T, BC-300R

3G SDI Video to Fiber Converter 1 Channel 3G SDI to Fiber Converter



Feature and Descriptions

- All-digital, uncompressed HD optical fiber transmission
- FC interface, transmission distance
- Support hot swap
- Rack type optional (can be used together with rack type and box type)
- With clock recovery, clock shaping
- Pass Pathological (extreme harsh environment) test
- Input adaptive, output resolution up to 1080@60HZ
- Transmission distance Single-mode fiber 10KM or more, up to 80KM
- Unidirectional audio and video / reverse data / Ethernet optional
- Support special function customization

Application

- Intelligence Traffic Monitor system(ITS)
- Metro/High-speed way monitor system
- Electric power/ hydraulic Safety Monitor system
- Industrial mining enterprises Security System
- Long-distance multimedia teaching/ Campus Security
- CATV long-distance transmission
- Building Automatic Security System

HD-SDI/3G-SDI video digital optical converter adopts international advanced all-digital gigabit optical fiber transmission technology, the HD-SDI/3G-SDI video signal can be transmitted through 1 fiber with non- Distortion, high-quality, long-distance transmission. This series of video to fiber converter has Stable performance, clear picture quality., and high Stability with LED Status Indication on the body of device. The working status of devices can be visually observed. At the same time, the switch value, voltage, working status and other reverse useful signal information can be controlled by RS485 or RS232. This makes our devices more flexible when different customers' request comes

Specification

SDI input / output	Descriptions
TVideo interface	BNC
Video impedance	75Ω
Video input/output	Typical:1Vpp,Min 0.5Vpp, Max 1.5Vpp
Video Bits Rate	Max 2.97Gb/s
Video SDI standard	270Mbps(SD-SDI), 1.485Gbps/M(HD-SDI), SMPTE425M3Gb/s Mapping(3G-SDI), SMPTE424M 3Gb/s serial interface(3G-SDI)

Data	
Input Connector	Industrial standard screw terminal
Output Connector	Industrial standard screw terminal
Interface Signal	RS485/RS422/RS232/Manchester
Baud Rate	0-400Kbps
BER	< 10 ⁻⁹
Operation Mode	Full duplex / half duplex

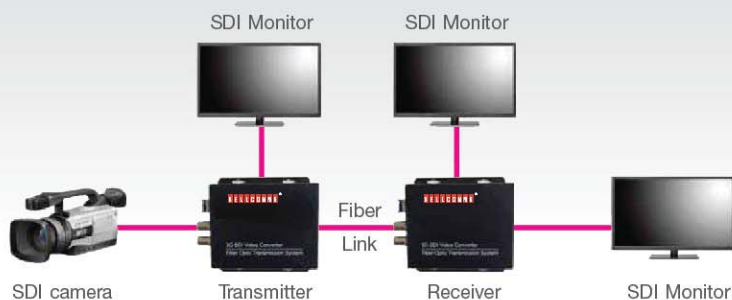
Audio	
Input Connector	Industrial standard screw terminal
Output Connector	Industrial standard screw terminal
Input Impedance	10K Ohm
Output Impedance	50 Ohm
Max input/output voltage	3.0Vp-p
Frequency Response	10 Hz-44.1kHz @±3dB
SNR	> 70dB

Specification

Contact Closure	Descriptions
Input Connector	Industrial standard screw terminal
Output Connector	Industrial standard screw terminal
Signal Input	Alarm or switching value Input ,support TTL, Rs-232/422/485 or switches, buttons
Signal Output	Alarm or switching value output ,support TTL, Rs-232/422/485 or contact relay output.

Ethernet	
Physical Interface	RJ45
Operating Mode	Full duplex / half duplex
Support Agreement	IEEE802.3 10M, 100M, 10/100/1000M adaptive

Audio	
Input power	AC 220V
Power consumption	8W
Operating Temperature	-10°C~55°C
Humidity	0%~95% (non-condensing)
Physical Characteristics	Single Device Dimension: 10.4*10.4*2.8cm (device); Single Device Weight: 0.25kg (device) Pairs Packing Dimension: 25*14*7.5cm (packing) Pairs Packing Weight: 0.75kg(transmitter+receiver in packing)



Order Part Number as Below.

Part Number.	Descriptions
BC-200T	1-ch 3G-SDI to Fiber Converter, Uncompress, with SFP module 3G Bidi SM, 20km, LC; Transmitter
BC-200R	1-ch 3G-SDI to Fiber Converter, Uncompress, with SFP module 3G Bidi SM, 20km, LC; Receiver
BC-300T	1-ch 3G-SDI+1-ch Loop+1-ch RS485 to Fiber Converter, Uncompress, with SFP module 3G/155M Bidi SM, 20km, LC; Transmitter
BC-300R	1-ch 3G-SDI+1-ch Loop+1-ch RS485 to Fiber Converter, Uncompress, with SFP module 3G/155M Bidi SM, 20km, LC; Receiver