

RC202-C3 STM-1 Media Converter

RC202-C3 is an STM-1 (155Mbps) media converter that performs the conversion from STM-1 coaxial cable to fiber optic and vice versa.

It is especially useful when carriers are deploying new STM-1 equipment with old ones. Because old version STM-1 equipment is always equipped with BNC interface, while new ones with optical interface. RC202-C3 could be

used between them as an independent device.

It could also be used in point-to-point topology to effectively extend the transmission distance of STM-1 coaxial cable. Additionally, different transmission distances can be customized by ordering different fiber optic interfaces.

Feature

Construction	Chassis module, compatible with RC001 and RC002 series chassis
Fiber optic options	Single-mode/multimode; dual-strand fiber (single-strand fiber can be ordered)
Transmission distance	Dual-strand fiber: up to 120km
Data speed	STM-1/OC-3
CC3(BNC) interface compliance	Attenuation tolerance for input: ITU-T G.703 Jitter tolerance for input: ITU-T G.703 Echo attenuation: ITU-T G.703 Output jitter: ITU-T G.958 Eye diagram: ITU-T G.703
Fiber interface	Jitter tolerance for input: ITU-T G.957 Output jitter: ITU-T G.958

Ordering Information

Part Number	Description
RC202-C3-X	Modular 155M STM-1 media converter
Suffix	X= M: Multimode, dual-strand, 850nm, 0~2 km S1: Single mode, dual-strand, 1310nm, 0~25 km S2: Single mode, dual-strand, 1310nm, 10~60 km S3: Single mode, dual-strand, 1550nm/DFB, 15~120 km

Optical Connector Parameter

Part Number	Optical Connector	Wavelength (nm)	RX sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)	Attenuation (dB/Km)
RC202-C3-M	SC	1310	<-29	-18- -14	0-2	3
RC202-C3-S1	SC	1310	<-34	-15- -8	0-25	0.5
RC202-C3-S2	SC	1310	<-34	-5- 0	10-60	0.5
RC202-C3-S3	SC	1550	<-36	-5- 0 (DFB)	15-120	0.25



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Specification

Fixed Interface	1*fiber interface SC connector 1*copper interface CC3 (BNC) connector
Indicators	PWR for Power Supply LOS for optical interface LOS for CC3(BNC) interface
Nominal bit rate	155.52Mbps ± 20ppm
Line code	CC3 interface: CMI Optical interface: NRZ
Dimensions	Module: 91(W)*155(D)*25(H)mm
Power supply	AC: 90~264V, 47~63Hz DC: -75~-36V Power supplies are provided by chassis
Power consumption	≤ 3W (at max load)
Working ambience	Temp: 0~45 centigrade RH: 5~90% non-condensing
Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing
Safety	CE
Compliance	

Compliance

Standards & protocols	ITU-T G.703 ITU-T G.957 ITU-T G.958
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