

## RC112-GE 10/100/1000M Media Converter

RC112-GE 10/100/1000M media converter is designed for accessing broadband subscribers at the edge of IP backbone network. It bridged the bandwidth gap between traditional TDM circuits and IP core by providing flexible bandwidth at flexible granularity. Thanks to the deployment of such media converter, bandwidth-thirst services such as IPTV and Video Conference were made possible.

RC112-GE series media converter performs the media conversion between 10/100/1000M twisted pairs and 1000M fiber optics, effectively extending Ethernet transmission distance from 100m to 120km (need customization). According

to carriers' specific network environment, different fiber optic options from single-mode to multimode, from single-strand to dual-strand can be ordered.

Its robustness and dependability has made it widely welcomed and popular with carriers and ISPs. RC112-GE shall always be working in pairs. They are usually inserted into RC002 16-slot chassis at Central Offices and RC001 single-slot chassis at POPs or Customer Premises. Alongwith Raisecom proprietary NMS system, modules at COs can be monitored and managed through user-friendly interfaces.



RC112-GE 10/100/1000M Media Converter

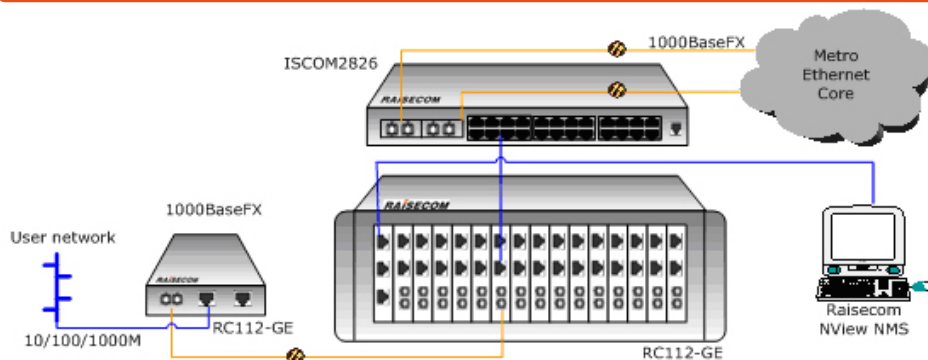
### Feature

Construction	Chassis module, compatible with RC001 and RC002 series chassis
Fiber optic options	Single-mode/multimode; single strand/dual-strand fiber CWDM wavelengths can also be customized
Transmission distance	Dual-strand fiber: up to 100km Single strand fiber: up to 20km
Maximum transmission unit	10/100M: 1916 Bytes, long enough 'Baby Giant' for MPLS or other long-frame-length Ethernet services 1000M: 9728 Bytes, suitable for SAN and other high demand applications
Bandwidth management	Increment of RJ45 port transmitting direction: 8Mbps Increment of RJ45 port receiving direction: 0.08Mbps at 10Mbps; 0.8Mbps at 100Mbps; 8Mbps at 1000Mbps
Auto Negotiation	The auto negotiation of copper interface allows RC112-GE to perform automatic configuration to achieve the best possible mode of operation over a link. Customers may disable this function to avoid the mode of operation dropping to the least common denominator when connecting with a non-negotiating device (i.e. 10Mbps, half-duplex)
Auto-MDI/MDIX	Automatically detects and configures the copper interface on the converter to crossover or straight-through cable configuration. This function eliminates an entire category of troubleshooting
Fault-pass-through	Fault-pass-through is a troubleshooting function that allows the media converter to monitor the optical link by shutting down the copper interface if receiving optical signals cannot be detected on fiber interface
ALS	Automatic Laser Shutdown function will have the optical transmission shut down if optical receiving signals cannot be detected
Management capability	Compliant to SNMPv1/v2c/v3 Through Raisecom iEMS network management system, carriers and network administrators are able to monitor, configure, and manage RC112 media converters through a user-friendly GUI

### Specification

Fixed Interface	1*fiber interface 1*copper interface
Indicators:	PWR for Power Supply LNK for optical port status ACT for optical port status LNK/ACT for copper port FDX for copper port 100M for copper port 1000M for copper port
Speed	1000M fixed fiber interface 10/100/1000M auto-negotiation RJ45 interface
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	≤ 5W (at max load)
Working ambience	Temp: -20~60 centigrade RH: 5~90% non-condensing
Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing
Safety Compliance	CE, UL and NEBS

## Typical Application



## Compliance

Standards & protocols	IEEE802.3 IEEE802.3x full duplex on 100BaseTX IEEE802.3u 100BaseTX IEEE802.3z Gigabit Ethernet
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## Ordering Information

Part Number	Description
RC112-GE-X	Modular 10/100/1000M manageable media converter, working in pairs
Suffix	X=
	M: Multimode, dual-strand, 850nm, 0~0.55 km
	S1: Single mode, dual-strand, 1310nm, 0~25 km
	S2: Single mode, dual-strand, 1550nm/DFB, 10~60 km
	S3: Single mode, dual-strand, 1550nm/DFB, 25~100 km
	SS13: Single mode, single strand, 1310nm TX, 1550nm RX, 0~20 km
	SS15: Single mode, single strand, 1550nm TX, 1310nm RX, 0~20 km