

RC552-FE 802.3ah OAM-Compliant Media Converter

RC552, the IEEE802.3ah OAM compliant copper to fiber Fast Ethernet solution, is Raisecom's new generation media converter. For quite a long time, carriers and service providers have been suffering from the inconvenience and complexity of using various types of NMS to manage their huge quantity of devices from various vendors. Sometimes, access media converters are even unable to manage at all. However, with the exponential

growth of Ethernet access and the deployment of Metro Ethernet and Nation-wide Ethernet as transportation network, the demands of managing Ethernet network elements are no more ignorable. Raisecom RC552 series 802.3ah OAM and SNMP both compliant media converter, with maximum interoperability, will enable carriers and service providers to have a crystal-clear vision of their network and an easy convenient managed demarcation point.



RC552-FE IEEE802.3ah
OAM Media Converter

Feature

Construction	Chassis module. Compatible with Raisecom RC001/RC002 series chassis
Fiber link option	Dual-strand fiber/single strand fiber (WDM)
Max frame size	1916 Bytes
Transmission distance	Dual-strand fiber: up to 120km Single strand fiber: up to 50km
Bandwidth management	Electrical port upstream and downstream bandwidth allocation at 32Kbps increment. The customer gets corresponding bandwidth as he pays for.
Fault propagation	1. From optical port to electrical port 2. From electrical port to the other electrical port (OAM function enabled) Form electrical port to optical port (OAM function disabled) 3. Optical port ALS (OAM function disabled)
IEEE802.3ah OAM standard function	RC552 has two working modes: Master and Slave. Central Office device works at Master mode, and Customer Premise device at Slave mode. The OAM functions are originated by Master device.
Link fault	Indicates local receiving-bound link fault to remote device
Remote loopback	Originate OAM loopback operation to remote device, and execute OAM loopback operation from remote device. Loopback results can be forwarded back to switch for analysis.
Link monitoring	Report local events to remote device, including Critical Event (voltage and temperature abnormal) and Dying Gasp (power down). Request remote device MIB variable, and answer MIB variable request from remote device.
OAM discovery	Check if remote device has implemented/enabled IEEE802.3ah OAM function, and negotiate with remote device.
IEEE802.3ah OAM extended function	The extended functions can only be implemented when RC552 media converters are pairly deployed.
Remote management	Configure the remote device
Remote upgrade	Upgrade the firmware of remote device
Security authentication	Only authenticated remote device can perform configuration and upgrade operations to local device
Loopback	1. Local optical port in-bound loopback 2. Local optical port out-bound loopback 3. Remote optical port out-bound loopback
Local management	Console port is provided on RC552 for local management, including status review, device configuration, and firmware upgrade
Upgrade	Online firmware upgrade is supported through console port

Specification

Management port	1 console (RJ45)
Serial port configuration	9600bps/8bit/none parity/1 stop bit/none flow control
User port (connector)	1 10/100BaseTX (RJ45) 1 100BaseFX (SC/PC)
Indicators	Power Supply System (flashing) FDX for electrical port 100M for electrical port LNK/ACT for electrical port LNK/ACT for optical port OAM
Dimension	91(W)*155(D)*25(H)mm
Weight	TBC
Power supply	AC: 90~264V, 47~63Hz DC: 36~75V
Power consumption	≤ 5W
Working ambience	Temp: -5~60 centigrade RH: 5~90% non-condensing
Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing
Safety compliance	CE marking FCC Class A

Ordering Information

Part Number	Description
RC552-FE-X	802.3ah OAM-compliant media converter module
Suffix	X=
	M: Multimode 850/1310nm, 0~2 km
	S1: Single mode 1310nm, 0~25 km
	S2: Single mode 1310nm, 10~60 km
	S3: Single mode 1550nm/DFB, 15~120 km
	SS13: Single mode 1310nm TX 1550nm RX, 0~25km
	SS15: Single mode 1550nm TX 1310nm RX, 0~25km
	SS23: Single mode 1310nm TX 1550nm RX, 10~50km
	SS25: Single mode 1550nm TX 1310nm RX, 10~50km

Compliance

Standards & protocols	IEEE802.3x full duplex on 10BaseT, and 100BaseTX IEEE802.3-2002 IEEE802.3u 100BaseTX IEEE802.3ah-2004 Q/RC001-2002 Q/RC002-2002
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