



Modular Managed Media Converter System

Overview

Modular Managed Shelf based Media Converter system is a 3U chassis that accommodates up to 20 plug-in cards. The shelf is divided into three sections. The first section is Media card section, which is 10/100Base-TX to 100 Base-FX converter containing 19 Media converter plug-in cards. Media converter cards can be used in pairs to support the redundant optical link. Element Management Card is the second section, it supports standard OAMP features. Power management is the third section it provides both AC & DC options with redundancy.



Key Features

- 19-inch 20 slots rack-mountable 3U chassis
- SNMP v2 Element management Card for the management of 19 cards Media Converters.
- Support Telnet, SNMP, and console management
- Two power supply AC/DC units with redundancy option
- LED indications for operations and maintenance
- Redundancy between pairs of media converters to increase the uptime

Media Converter Card

- Provides TX-FX conversion modes with Link Failure Pass Through (LPT)
- Support 10/100Mbps speed on UTP connections
- Support store & forward frame forwarding
- Support MAC address learning table with aging function
- Forward and filter at non-blocking full wire speed
- 802.3x flow control for full duplex and backpressure for half duplex
- Support Auto-Negotiation
- Auto MDI/MDI-X detection function on the UTP port
- Provide manual configuration settings for UTP port to support connection to non-auto-negotiation devices
- Jumbo Packet lengths up to 9216 bytes
- Provides port status for remote agent monitoring (LPT)
- Also manual configurations supported through dip switches
 - Auto negotiation/Force mode.
 - 10Base-T/100 Base-T
 - Half Duplex/Full Duplex.
- Support following LED indications for Fiber port
 - Link/Act
 - Signal Detect (S Detect)
- Support following LED indications for UTP port
 - Link/Act
 - Speed 10/100
 - Duplex (full/Half)

Element Management System Card

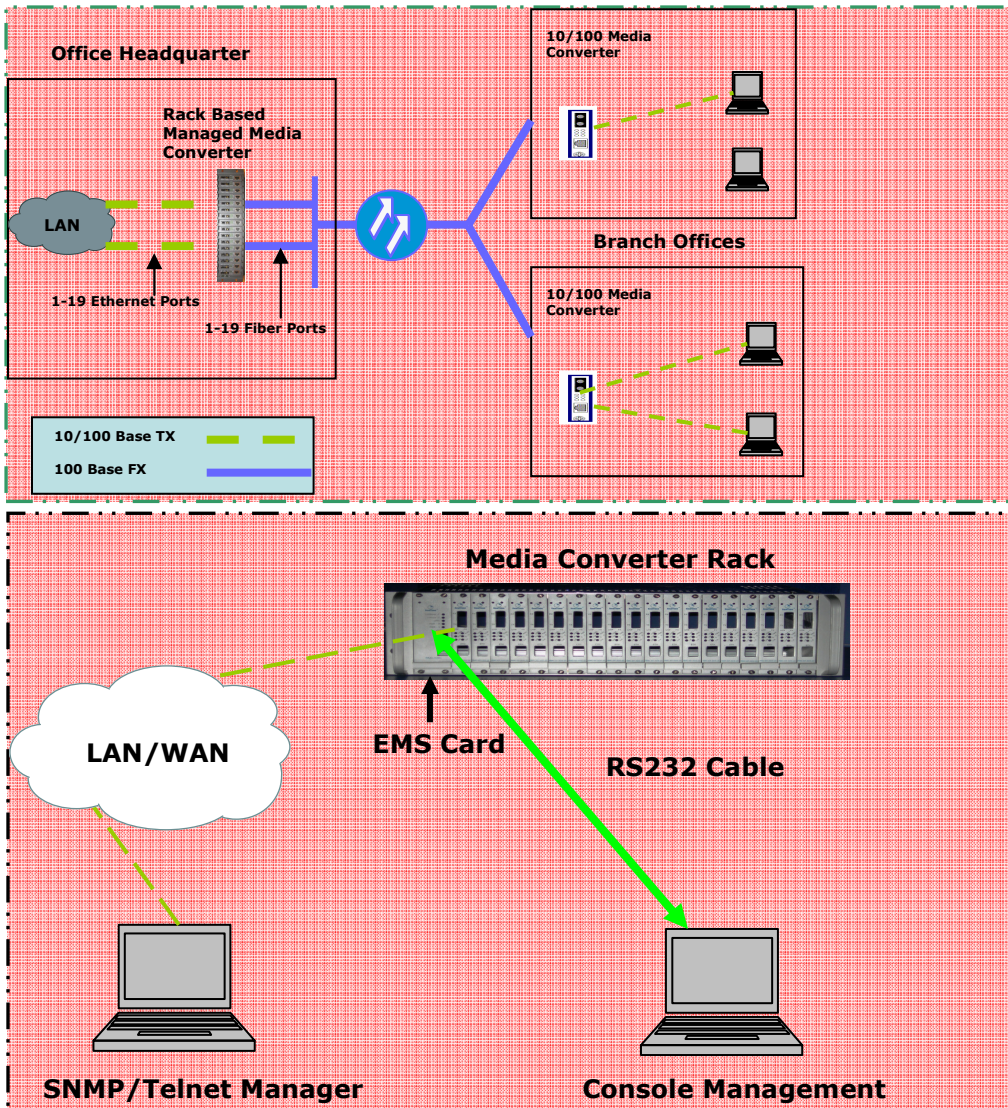
- Supports SNMP V1/V2
- Element management card is designed to configure & manage up to 19 Media converter cards.
- EMS card also monitors power supply status.
- Supports Hot insertion.



Modular Managed Media Converter System

- Support telnet port for configuration and management.
- Provides one serial console port for configuration and management.

Application



- FTTH, FTTB, FTTC,FTTD or any FTTX Networks
- Last Mile Broadband Networks
- Government and Military Networks
- School and University Campus Networks
- Hospitals and Health Care Networks
- Ethernet Transportation Networks
- Extending and repeating fiber network links
- Connecting Single-Mode to Multi-Mode and Single Fiber to Dual Fiber
- Increase the capacity of existing fiber with CWDM
- Providing redundant link protection



Modular Managed Media Converter System

RealTime Systems Ltd.

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Technical Specification

Ethernet(UTP) Interface	
Port	UTP
Connector	RJ-45
Pin Assignments	Auto MDI/MDI-X detection
Signal Compliance	802.3 10Base-T, 802.3u 100BaseTX
Data Speed	10Mbps or 100Mbps
Duplex Mode	Half-duplex or Full duplex
Configuration manual settings	Auto-negotiation capable and optional Forced
Recommended Cable Types	10Mbps - Category 3, 4, or 5 UTP, 100Mbps - Category 5 UTP
Supported Link Distance	Up to 100 meters
Fiber Optic Interface	
Port	FX
Signal Compliance	802.3u 100BaseFX
Connector	SC
Data Speed	155Mbps
Cable Types	Single /Multi Mode: Single/Dual Fiber
Supported Link Distance	As per specifications (Up to 5Km in MM and up to 100Km in SM)
Eye Safety compliance	IEC825 Class 1
Serial (Management) Interface	
Connector	RJ-45
Baud rate	57600
Data bits	8
Parity	none
Stop bit	1
Flow control	none
AC power Specifications	
Input	140 ~260VAC
Current	3 Amp
Frequency	50 Hz
DC power Specifications	
Input	36 ~ 75VDC
Current	8 Amp
Power Consumption	
Fully loaded	50W
Physical	
Chassis Dimension	132x427x235mm HxWxD (in mm),19" rack mountable,3U height
Housing	Metal Enclosure with fan
Mounting	Desktop and Rack



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Environment		
Operating temperature	10 ~ 50°C	
Storage temperature	20 ~ 75 ° C	
Operating humidity	10 ~ 90% RH	
Indicators on Media Converter Card		
Description	LED Description	Color
UTP	L/A (Link/Act)	Green
	100Base-T	Green
	FDX	Green
Fiber	L/A (Link/Act)	Green
	S-D (Signal Detect)	Red
	PWR	Amber
Indicators on Element Management System Card		
Description	LED Description	Color
	LINK	Green
	100 Base-T	Green
	10 Base-T	Green

Ordering Information

Model	Description
RMC-EFSHELF	Media Converter shelf for 19 Media converter cards
RMC-EMC	Element Management Card
RMC-ACPC	Power Card (AC)
RMC-DCPC	Power Card (DC)
RMC-EFSDS-20	Media Converter Card (SM/20KM/Dual Fiber)
RMC-EFSDS-40	Media Converter Card (SM/40KM/Dual Fiber)
RMC-EFSDS-60	Media Converter Card (SM/60KM/Dual Fiber)
RMC-EFSDS-80	Media Converter Card (SM/80KM/Dual Fiber)
RMC-EFSSS-20A	Media Converter Card (SM/20KM/Single Fiber)
RMC-EFSSS-40A	Media Converter Card (SM/40KM/Single Fiber)
RMC-EFSSS-60A	Media Converter Card (SM/60KM/Single Fiber)
RMC-EFSSS-80A	Media Converter Card (SM/80KM/Single Fiber)

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