



# RTS CONV-2MB-XX

## Overview

**RTS-CONV-2MB** provides a new level of performance in connecting bridges and routers to an Unstructured/Structured E1 or fractional E1 through G.703, 2Mb/s leased lines. To connect a LAN bridge or router to a 2 Mb/s leased line requires a G.703 interface. The RTS-CONV-2MB spans the gap between the synchronous interfaces of a bridge or router and the E-1 leased line. RTS-CONV-2MB offers a V.35/V.36/V.11/X.21, 10/100 Base-T DTE or DCE interfaces and BNC (optional) or RJ-45 connectors for the E-1 line interface.

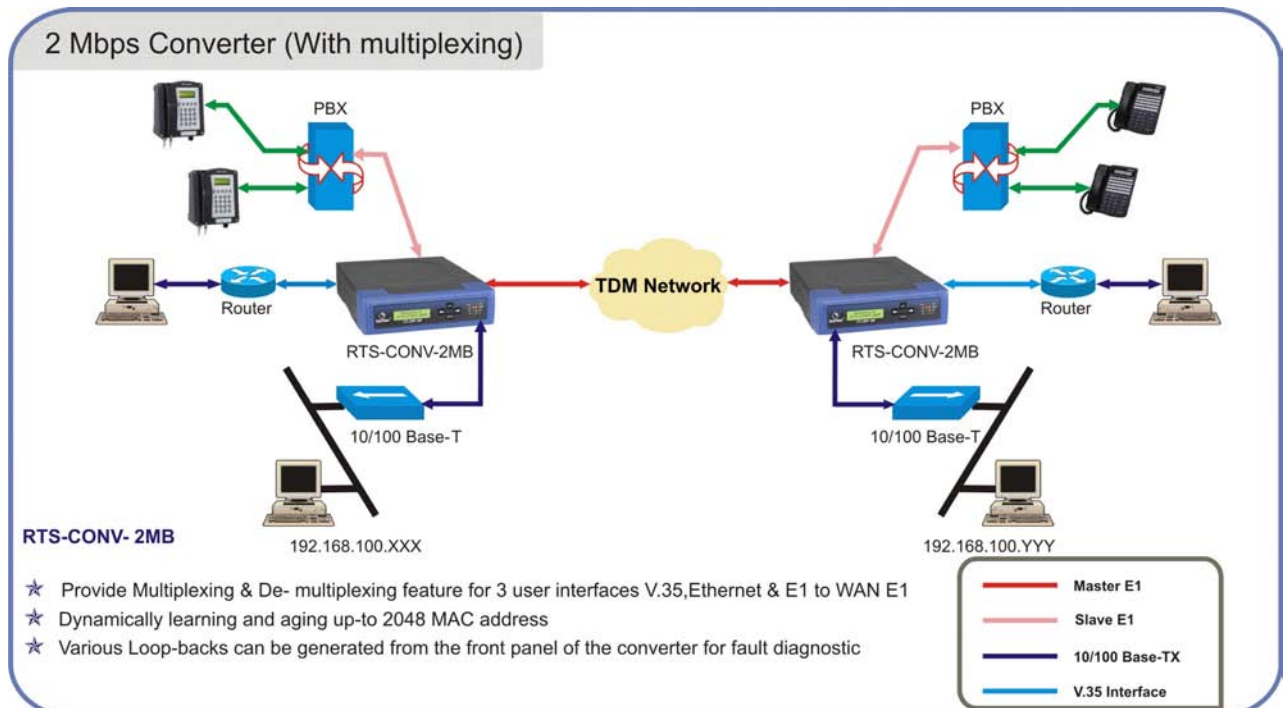
## Key Features

- Provides rate & interface conversion between G.703, 120 ohms interface, to various client side interfaces like V.35, V.36, X.21, RS-530,10/100 Base-T etc.
- Complies with G.703, G.704, G.706 ,G.823 & G.732
- Data rate up-to 2.048 Mb/sec, selectable from N=1 to 32
- NX64 Kbps drop & Insert Multiplexing & De-multiplexing.
- MAC address Filtering for enhances security & bandwidth
- Various types of enclosures including tabletop rack / standard 19" shelved available
- 15 Nos. of Systems can be incorporated in a 19" shelf
- Structured and Unstructured modes, locally settable, provided.
- Various Loop-backs can be generated from the front panel of the converter for fault diagnostics
- It can operate as short-range (2-Km) modem. Optionally system can support long haul applications
- Supports SNMP V1/V2 for extensive diagnostics, including loop-backs, Ethernet and E1 performance monitoring.
- Complies with EMI/EMC specifications CISPR 22A {1993} for Class B equipment
- OAM operations through LCD and VT 100 dumb terminal
- Management software available for 19" rack & shelf mounted systems
- Provides AC(160 to 240V) or DC (-40 V to -60 V) or both powering option in same box



## Application

- Connectivity of PCM network with G.703 interfaces to Switch, router/ server of LAN network.
- Providing Multiplexing & De-multiplexing of user interfaces like G.703, V.35 & Ethernet interface into G.703 network interface.





## RTS CONV-2MB-XX

### Specifications

Model	RTS-CONV-2MB -XX
<b>Hardware Specifications</b>	
Power supply	230 V A.C nominal (160V to 240V) / -48 V D.C nominal (-36V to -60V)
Dimensions	Single Slot (S. S.) Enclosure: 245 x 306 x 62 mm & 19" shelf: 586 x 355 x 435 mm
Operating environment	-15 ~55 degree C, 5%~90%RH
<b>Network Interface</b>	
<b>G.703</b>	Balanced 120 Ohms / Unbalanced 75 ohms ,4-wire network interface
Standards	Complies with ITU-T G.703, G.704, G.706 & G.732,G.823
Modes	Structured / Unstructured modes e.g. PCM-31,PCM-31C,PCM-30,PCM-30C,
Line Code	HDB3
	LIU Sensitivity: (I) Short Haul.0 to -6dB (II) Long Haul.0 to -34dB (III) Ext. Long Haul. -20 to -48dB
Protection	Shunt and series protection for accidental power and lightning
Clock Options	Internal Clock/ External Clock/ G.703 Recovered Clock/DTE slave Clock
<b>Synchronous Interface V.35/V.36/X.21/RS530</b>	
	Standard M34 pin Connector
	Client interface providing up to 2.048 Mb/sec data
	N x 64 Kbps (N=1 to 32) user configurable as bandwidth requirements
Connector	Standard 34-pin female
Clock/data	Inverting/Non-inverting Slave/Loop
	DTE, DCE soft configurable (Optional)
<b>Ethernet Interface</b>	
	Compliance to Ethernet & IEEE 802.3 standards
Protocol	Supports standard HDLC protocol
	2 Nos of 10 /100 Base-T (RJ-45), IEEE 802.3, 802.3u ,half & full duplex
MAC address	Dynamically learning and aging up-to 2048 MAC addresses
<b>Management</b>	
Front panel LEDs	Power supply Indication. E1 Faults (LOS, AIS or Loss of frame). Synchronous Interface: Fault Data Interfaces, Transmit Data (TD) & Receive Data (RD). Test,CLK mode & System Fault Buzzer disable indications
LCD with front panel switches	For System Information, Configuration & Fault Diagnostics
Loop backs	Network-to-Network loop back at G.703 Interface & Client-to-Client loop back at Data Interface compliant to V.54
BER meter	Yes with PRBS generator of 2E-11
Console (supervisory) port	RS232 (V.24) port with 9-pin D type female connector
Telnet & SNMP	Via External Ethernet Management port
Alarm	Resettable audio alarm for E1 link failure



## RTS CONV-2MB-XX

### Ordering Information

"RTS-CONV-2MB -XX-M" (Managed) & "RTS-CONV-2MB -XX" (Unmanaged): where "XX" represent nos. 01, 02...10, 11...etc.

Features		Models of "RTS-CONV-2MB-XX"															
		00	01	02	03	04	05	06	07	08	09	10 S	10 D	11 S	11 D	12	
Display Type	7-Segment		*	*	*	*	*	*	*								
	LCD	*								*	*	*	*	*	*	*	
Mechanical	Single Slot Enclosure	*			*	*	*	*	*	*	*	*	*	*	*	*	
	Shelf - 19"		*	*													
Interfaces	G.703	*	*	*	*	*	*	*		*	*	*	*	*	*	*	
	V.35	*	*		*	*			*	*	*					*	
	Ethernet	Single port			*			*	*	*		*		*			
		Dual Port											*		*		
Speed	2 Mbps Full				*	*	*	*	*								
	2 Mbps Fractional	*	*	*						*	*	*	*	*	*	*	
Power Supply	Only AC 220V	*			*		*		*	*		*	*			*	
	Only DC -48V		*	*													
	Both AC & DC					*		*		*			*	*			
Others	VT 100		*	*						*	*	*	*	*	*	*	
	Long Haul															*	

### Ordering codes for RTS-Conv-2MB with Multiplexing & De-multiplexing feature

Features		RTS-Conv-2MB-XX A or B or C (unmanaged) & RTS-Conv-2MB-XX A or B or C-M (Managed)											
		13A	13B	13C	14A	14B	14C	15A	15B	15C	16A	16B	16C
Interfaces	G.703 (Master)	*	*	*	*	*	*	*	*	*	*	*	*
	G.703 (Slave)	*	*	*	*	*	*				*	*	*
	V.35	*	*	*				*	*	*	*	*	*
	Ethernet				*	*	*	*	*	*	*	*	*
Power Supply	AC 220V	*		*	*		*	*		*	*		*
	DC 48V		*	*		*	*		*	*		*	*

RealTime reserves the right to change or modify or update or clarify specifications without notice in the interest of technological advancement.

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