

TDM Modem Series

SHRM03-E1/ V35/ ET100



G.SHDSL Modem Concentrator

The SHRM03 offers Three different ways to connect customers over high-speed DSL services; TDM based G.703 E1, TDM based serial DCE port or TDM based Ethernet Bridge. The SHRM03 is equipped with an adaptive auto rate capability that identifies the maximum line rate supported by the copper loop. This powerful automatic configuration capability makes installation and service provisioning simple and painless. Further flexibility is provided by the ability to manually set the maximum speed at different levels for different customer-tailored service offerings. This Rack is 100% compatible with our SHDTU03 standalone CPE modem.

Features

- All interface connectors on the rear panel
- Central solution in standard 19 inch rack
- Downloadable software for easy upgrade
- E1 and fractional E1 capable
- Each line card supports two channels of single pair (two-wire) for E1/Datacom/Ethernet solution N x 64k rate selectable from 64kbps to 2.304Mbps
- Hot swappable cards and redundant (optional) power supplies
- Menu oriented console screens for ease of use
- Optional SNMP network management system card
- Up to 13 cards (26 loops) can be installed + 1 SNMP card

Specifications

General Specification		
Power	AC 100V/ 220V, DC -48V	
Environment	Temperature	0 — 50°C (Operating); 20 — 70°C (Storage)
	Humidity	5% — 90% non-condensing
Power Consumption	100W	
Dimensions(WxDxH)	438 x 285 x 180mm	
Weight	6.5kg	

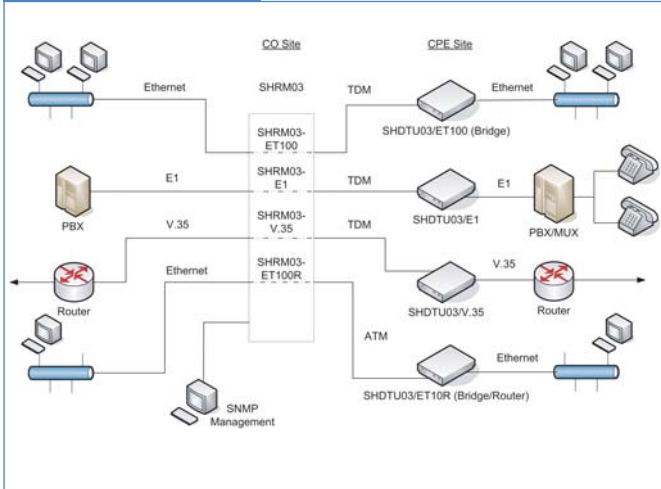
E1 Specifications		
Line code	HDB3/ AMI	
Data rate	64 — 2048kbps	
Operation	Full or Fractional	
Impedance	120 ohms balanced/ 75 ohms unbalanced	
Framing	Structured with or without CRC-4 or	
Timing	Internal clock or G.703 recovery	
Jitter performance	ITU-T G.823	
Connectors	BNC for unbalanced, 5 pin wire connector or RJ-45 for balanced	
Transmit level	Pulse amplitude	Nominal 2.37V+10% for 75 ohm Nominal 3.00V+10% for 120 ohm
	Zero amplitude	0.1V
	Transmit frequency tracking	Internal timing ± 30ppm Loopback timing ± 50ppm External timing ± 100ppm

Ethernet Interface Specifications	
Standard	IEEE 802.3/IEEE 802.3u
Encapsulation	Raw HDLC
packet size	maximum 1536
SHDSL Interface Specifications	
Standard	ITU-T G.991.2
Line code	16 level Trellis coded PAM
Data rate	64kbps — 2.304Mbps
Support	ANSI (Annex A) and ETSI (Annex B)
Datacom Interface Specifications	
Data Rate	64kbps — 2304kbps
Connectors	HD26 (cable adapters available)
Timing	Internal, External

Specifications - Software

Software Specification		
Performance	SHDSL PM	ES-crc, SES-crc, UAS, LOSW seconds
	E1 PM	ES, SES, UAS seconds
Diagnostic	Current 15-minute period and 96 previous 15-minute periods of SHDSL and E1 performance parameters	
	Current 24-hour period and 7 previous 24-hour periods of SHDSL and E1 performance parameters	
LEDs indication	E1	PWR, SHDSL, FE1, LOF, LOS, TEST, LOOP, ALARM, and FAR ALARM
	V.35	PWR, SHDSL, TD, RD, CTS, TEST, LOOP, ALARM, and FAR ALARM
	Ethernet	PWR, SHDSL, 10M/ACT, 100M/ACT, COL, TEST, LOOP, ALARM, and FAR ALARM

Application



Ordering Info



SHRM03-AC



SHRM03-SNMP

Rack Mount SHRM03 Chassis

SHRM03-AA/CH	4U, 19" 14 slots Chassis for AC + AC Power
SHRM03-AD/CH	4U, 19" 14 slots Chassis for AC + DC Power
SHRM03-DD/CH	4U, 19" 14 slots Chassis for DC + DC Power
SHRM03-AC	AC100V, AC220V Power Module
SHRM03-SNMP	SNMP I/F card with MIB and Console cable



SHRM03-E1/2T



SHRM03-V35/2T



SHRM03-ET100/2T

Optional Line Card

SHRM03-E1/2T	G.SHDSL (2W) E1 (2 channels) TDM line card with E1 connector adapters
SHRM03-V35/2T	G.SHDSL (2W) V35 (2 channels) TDM line card
SHRM03-ET100/2T	G.SHDSL (2W) 10/100Base TX Bridge (2 channels) TDM line card with RJ-45 adapters

Fiber Series

Access Series

3 XDSL Series

IP Networking

Testers

Interface Converter

Datacom Accessories

Network Management