Smart solutions for smart networks

Version 1.4

SH3312

G.SHDSL STANDALONE

Introduction

The CXR SH3312 provides high-speed digital transport over a single copper pair using standard 16PAM or proprietary 32PAM technology. Versatility of this series comes from a choice of digital interfaces and a choice of line rates, with the lower line rates applicable to longer reaches.

Features

This standalone version is intended for customer premises installation only. CXR SH3312 can provide a high-speed data link with DTE interface (X.21).
The CXR SH3312 supports configuration and diagnostics from a local or remote terminal. This allows execution of in-service diagnostics and fault isolation.

Ordering information

Reference	Description
SH3312-RT-I	Standalone with LED display, for multi-rate 200Kbps – 2.3 Mbps (1-pair), 2 Ethernet ports support hardware bridge
SH3314-RT-I	Standalone with LED display, for multi-rate 200Kbps – 2.3 Mbps, and 4.6Mbps (2-pair), 2 Ethernet ports support hardware bridge
SH3312-RT-E1-120-I	Standalone with LED display, for multi-rate 200Kbps – 2.3 Mbps (1-pair), 2 Ethernet ports support hardware bridge and 120 ohm Twisted Pair RJ48C E1 interface
SH3314-RT-E1-120-I	Standalone with LED display, for multi-rate 200Kbps – 2.3 Mbps, and 4.6Mbps (2-pair), 2 Ethernet ports support hardware bridge and 120 ohm Twisted Pair RJ48C E1 interface
SH3312-X21	Standalone with LED display, for multi-rate 200Kbps – 2.3 Mbps (1-pair), X.21 DTE interface
SH3314-X21	Standalone with LED display, for multi-rate 200Kbps – 2.3 Mbps, and 4.6Mbps (2-pair), X.21 DTE interface

CXR Networks
CXR
T +33 (0) 237 62 87 90
www.cxr.com
Rue de l'Ornette 28410 Abondant France
contact@cxr.com

Specifications

WAN – G.SHDS Line Interface

Number of pairs	G.SHDSL: 1 or 2 pair
Line rate (per pair)	8K+N x 64 Kbps, N =3 to 36 for 1 pair or 2 pairs G.SHDSL
Line code	16-TCPAM/32-TCPAM, full duplex with adaptive echo cancellation over unconditioned 19-26 AWG twisted pair
Sealing Current	Max. 20ma sink current
Clock Mode	Plesiochronous, Synchronous, Hybrid (downstream: synchronous, upstream: plesiochronous)
PSD Mask	Symmetric, Asymmetric
PBO Mode	Automatic, 0 ~ 31 dB
Standard	ITU-T G.991.2 (G.SHDSL Annex A, B) and G.994.1 ITU-T G.991.2 (G.SHDSL.bis Annex F) and G.994.1
Connector	RJ48C

E1 Interface

Line Rate	2.048 Mbps ± 50 ppm	Framing	ITU G.704
Line Code	HDB3/AMI	Connector	RJ48C (120ohm)
Input Signal	ITU G.703	Output Signal	ITU G.703
Electrical	120W twisted pair		

X.21 DTE Interface

Data Port	Single DTE
Data Rate	N x 64K bps, N =1 to 36 (2.304M bps) for 1-pair G.SHDSL N x 64K bps, N =1 to 72 (4.608M bps) for 2-pair G.SHDSL
Connector	DB15 connector for X.21 interface

Ethernet Interface

Number of Ports	2
Connector	RJ45
Physical Interface	10/100 Base-T, Ethernet Switch inside.
Data Rate	N x 64K bps, N =1 to 36 (2.304M bps) for 1-pair G.SHDSL N x 64K bps, N =1 to 72 (4.608M bps) for 2-pair G.SHDSL
Throguhtput (1518bytes)	2.4 Mbps for for 1-pair G.SHDSL 4 Mbps for 2-pair G.SHDSL
Ethernet Bridge	Layer 2 protocol: HDLC, PPP, Frame Relay (up to 10 Frame Relay PVCs), Cisco compatible HDLC Remote bridge support (padding/ un-padding Ethernet CRC checksum) User configurable aging time Up to 2K MAC Table Cisco ISL packet transparent VLAN packet transparent, maximum frame size 1784 bytes (IEEE 802.1q) Bridge with management IP Spanning Tree Protocol/Rapid Spanning Tree Protocol (IEEE 802.1d/802.1w) Bridge option can be software upgraded to Router (see Layer2, Bridge mode available for transparent bridging)

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