

LineRunner SHDSL EFM DTR

The desktop router (DTR) is a CPE for symmetrical SHDSL data transmission with Ethernet in the First Mile (EFM)



- 1-, 2- or 4-pair transmission
- SHDSL/SHDSL.bis (EFM) with up to 22.8Mbps
- 8 Ethernet interfaces for LAN connections
- CPE for MileGate SUSE1 or point-to-point transmission
- Integrated firewall
- DHCP server and client
- Network Address Translation (NAT/NAPT)
- Integrated in the network management system UNEM

LineRunner SHDSL EFM DTR is a CPE to connect business customer via symmetrical SHDSL lines. The CPE is developed for the connection to the line card SUSE1 of the IP-based Multi-Service Access Node MileGate or for single point-to-point connections.

With EFM the network operator now can use the same protocol from the centre up to the customer. This saves costs during introduction and operation.

■ LineRunner SHDSL EFM

LineRunner SHDSL EFM DTR terminates SHDSL EFM lines at the end user. This way operators can provide modern business services as VoIP, broadband Internet and video conferencing out of MileGate.

With 8 Ethernet interfaces and a integrated router the CPE is ideal for the high-speed connection of corporate networks to the Internet or the coupling among them.

■ Pair Bonding

LineRunner SHDSL EFM provides pair bonding up to four pairs, supporting different rates on the pairs of a bundle for optimum bandwidth. The traffic remains in case of line-faults, as long as at least one pair of a bundle is operating.

■ SHDSL.bis

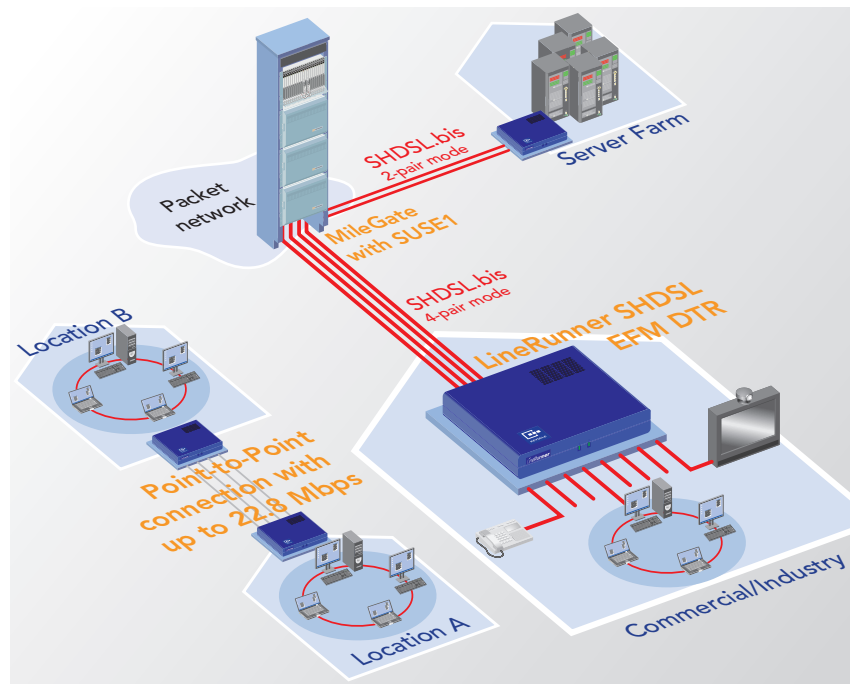
With the implementation of Annex B and G from the ITU-T G.991.2 standard network operators are able to transmit up to 22.8 Mbps over four wire pairs.

■ Point-to-Point Operation

LineRunner SHDSL EFM can be used for single SHDSL lines (e.g. for campus applications) to interconnect separate locations fast and cost-effective via copper pairs.

■ Management

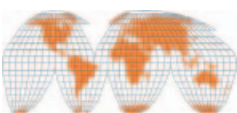
The units are managed via UNEM and Telnet respectively web-based interfaces.



Application examples of LineRunner SHDSL EFM DTR

Technical Data

SHDSL EFM	
Number of ports	2 or 4 (1-, 2- or 4-pair operation supported)
Supported standards	ITU-T, G.991.2, Annex B – 2.3 Mbps (TCPAM-16)
EFM (Ethernet in the First Mile)	ITU-T, G.991.2, Annex G – 3.8 Mbps (TCPAM-16), 5.7 Mbps (TCPAM-32)
Pair bonding	According to IEEE 802.3ah
	Up to 4-pair operation – 15.4 Mbps (TCPAM-16), 22.8 Mbps (TCPAM-32)
Ethernet Functionality	
Number of interfaces	8
Supported protocols	IP, TCP, UDP, ARP, RARP PPPoE, PPPoE intermediate agent according to IETF RFC 2516 IPoE DHCP server (IETF RFCs 2131, 2132, 1533), DHCP client (IETF RFC 2132), DHCP proxy/BOOTP relay agent (IETF RFC 1542)
Multicasting	IGMP v2/v3, supports IGMPv3 snooping according to RFC 3376
VLAN	VLAN according to 802.1P/Q Double-Tag-VLANs (Q-in-Q) according to 802.1ad 1:1- or n:1 services supported
TLS	Transparent LAN Service via VLANs according to TR-101
Further Features	
Power Back-off	Supported
Different rates on bonded pairs	Supported
Management	
UNEM, Telnet, web-based	For central management
Dimensions (H x W x D) and Weights	
LineRunner SHDSL EFM DTR	43 mm x 220 mm x 195 mm, 0.8 kg
Power Supply	
Input voltage nominal (min/max)	110 - 230 VAC (50 Hz - 60 Hz)
Operation Environment	
Temperature range and humidity	-5 °C ... +45 °C, 5 % ... 95 % non condensing



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