

SHDSL Modem Router



PIXIE

PIXIE is a Modem Router with G.SHDSL uplinks. With the symmetrical data transmission up to 22.8 Mbps on 2-pairs, G.SHDSL.bis satisfies the needs of multiple users, who need both bandwidth and permanent data connection. It cost-effectively extends multiple Ethernet services on existing copper lines. It could act as the gateway for small and medium enterprises to connect to Internet with adequate number of Ips and security functions. Flexible configuration of QoS enables SME customers to define different flows like VoIP, video and data with guaranteed or maximum bandwidth allocation.

This device works as the demarcation point between carriers and customers and saves the cost of SME customers from buying additional small routers for their security and routing requirements. If the EPL and EVPL are required for much bigger organizations and branches, it could also deliver Layer2 Carrier Ethernet service for point to point in Bridge mode.

Key Features

Main feature	Compact and high performance. Supports G.SHDSL.bis Technology	WAN protocols support	Ethernet bridging, EFM encapsulation Routing capability - Static and Dynamic routing (RIPV1/V2), OSPF, PPPoE (RFC 2416)
G.SHDSL specification	PAM16 & TCPAM 32 - ITU-T G.991.2(2004) TCPAM 64 (per pair - 11Mbps) support. ITU G.991.2 Annex A , Annex B & Annex F EFM bonding Max 22.8Mbps (11.4Mbps/1 pair)	Diagnostics	Ping & Trace route - For Ethernet interface
LAN protocols support	IEEE 802.1Q (VLAN Tagging) - 4K Security & efficient Bandwidth. Double Tagging -Q-in-Q. Quality Of Service Traffic priority: L2 (IEEE 802.1P - Ethernet priority) and L3 (ToS/Diff-Serv) classification with four traffic classes IEEE 802.1D Support (STP & RSTP) IEEE 802.3ad (Link Aggregation) Support IEEE 802.1ad Support (Provides Bridges)	Management	Menu driven via RS-232 console port Web Browser (HTTP & HTTPS), SNMP V1, V2C & V3, Telnet, RCMP, GUI-based configuration; LED indication for System & port Status Supports EOC for Configuring & supervising remote unit, Password Protection, PAP and CHAP support Firmware upgrade via FTP, TFTP applications & web interface
		Firewall	Statefull Packet inspection & DoS protection Compact in high performance standalone unit DMZ port support to host servers Firewall policies between LAN, WAN & DMZ ports, Network address translation / Port Address Translation (NAT / PAT) support

Features

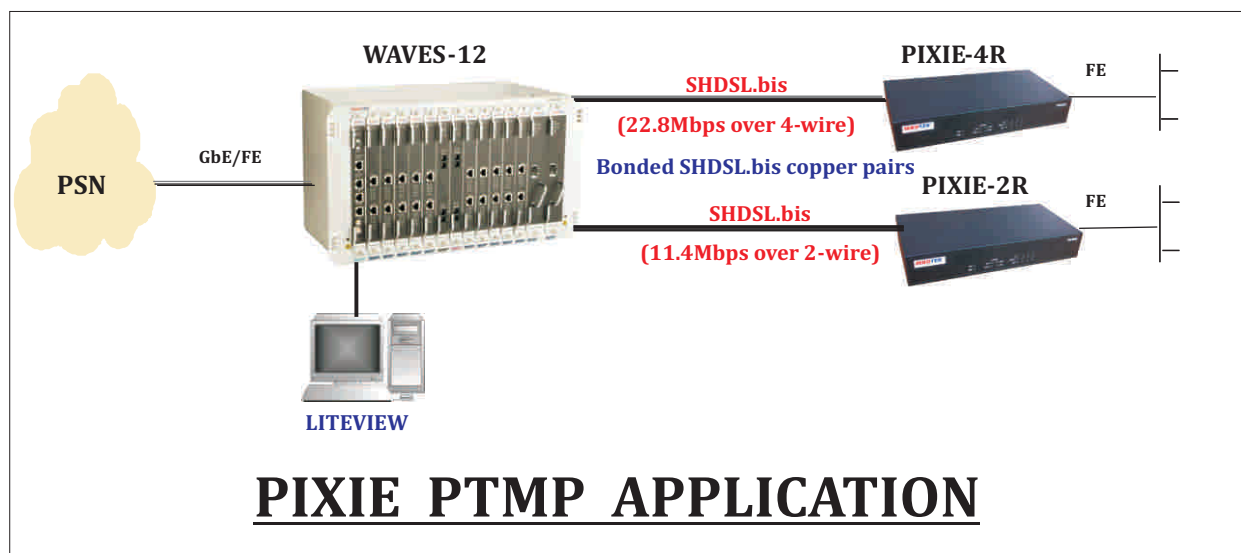
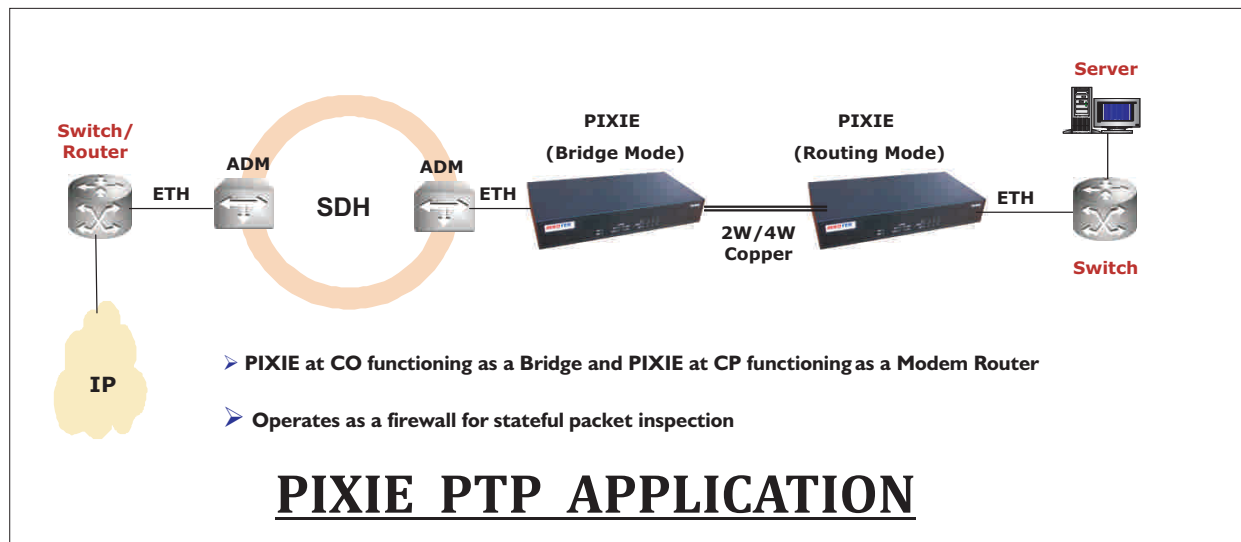
Firewall

VPN IPsec and PPTP, Data encryption (DES, 3DES & AES)
 VPN Pass-Through (IPSec & PPTP)
 Hardware Accelerated VPN Gateway
 Authentication (SHA-1, MD5)
 Manual Key, IKE, PKI (X.509)
 IPSec NAT Traversal
 Maximum of up to 100 IPSec VPN Tunnels
 Real time logs & Content filtering

General features

Multicast/
 Broadcast limiting and advanced OAM functionality
 Port & application based rate Control
 DHCP server and client, DHCP relay
 Mac count limiting and MAC Filtering
 DHCP snooping and DNS server proxy
 IGMP Snooping Support
 IP Multicasting (IGMP)
 Support for mac addresses- Total number
 Rate Limiting for Broadcast & Multicast
 VPN Passthrough
 Mac based access list
 Ingress & Egress Rate Limiting
 Priority Bandwidth Utilization
 Integrated line test capability
 Fault propagation

Application



Technical Specifications

- **WAN interface** :
 - Interface : G.SHDSL (1 no)
 - Connector : RJ-45
 - Coding : TCPAM 64 support
Annex-A,B,F ,G support
 - Indicators : LNK,STU-C;
- **LAN interface** :
 - Interface : 4*10/100M auto-negotiation
 - Connector : RJ-45
 - Mode : Full/half duplex mode,
Auto MDI/MDI-X, 100m distance
 - Indicators : LNK,STU-C;
- **Standards and protocol** :
 - IEEE802.3-2002
 - IEEE802.3ah-2004
 - IEEE802.3ad
 - IEEE802.1ad
 - IEEE802.1D
 - IEEE802.1Q-2003
 - RFC2011 SNMPv2
 - RFC2012 SNMPv2
 - RFC2013 SNMPv2
 - RFC2416
- **Power supply** : AC & DC Power supply option
via single power socket
 - Power consumption : ≤ 8W (at max load)
- **Operating environment** :
 - Temperature : 0~45 centigrade
 - Relative Humidity : 10 ~ 90% non-condensing
- **Storage environment** :
 - Temperature : -25~60 centigrade
 - Relative Humidity : 5 ~ 95% non-condensing
- **Dimension** : 1U high, stand-alone
- **Weight** : < 2Kg

Ordering PIXIE

PIXIE-4R/AC/DC	PIXIE, SHDSL Modem Router, built-in firewall, 4-Ethernet ports,supporting data transmission up to 22.8Mbps on dual pair
PIXIE-2R/AC/DC	PIXIE, SHDSL Modem Router, built-in firewall, 4-Ethernet ports,supporting data transmission up to 11.4 Mbps on single pair



Copyright MRO-TEK Limited - 2011 **MROTEK** is registered for Trade Marks with appropriate authorities.
Specifications are subject to change without notice. E & OE. V11_06.

MROTEK™
Integrating Next Generation Networks

MRO-TEK Limited
Bellary Road, Hebbal
Bangalore - 560 024, INDIA
Phone : +91-80-23332951
Fax : +91-80-23333415
Email : mrotek@vsnl.com
Web: www.mro-tek.com