FIBERLINK 2000
ETHERNET ROUTER

DESCRIPTION

The Fiberlink 2000 was designed to be complete and economical. Developed for WAN and LAN environments, it has optical (SFP) and electrical (RJ-45 and integrated GPON) interfaces that serve small and medium sized businesses.

It offers speed of up to 1Gbps for frames from 64B to 1518Bytes, integrating advanced routing and packet switching via HW. In addition to reducing network complexity, the Netlink 2000 router simplifies management and increases control over your network.

It is capable of providing an agile and flexible network infrastructure, as well as rapidly suiting your network equipment investment needs to the changes in market requirements.

High performance, quality of service (QoS), and service classification through VRF are concepts implemented in the development of the Netlink 2000 to ensure that you are always connected.

The Fiberlink 2000 model also has an integrated GPON ONU compliant with the ITU G.984 standard. These models allow the integration of the local network (LAN) directly into the GPON, dispensing additional equipment, facilitating provision and maintenance, as well as reducing installation and operational costs.

HIGHLIGHTS

✓ High performance Ethernet Router with support for advanced L3 services such as BGP, VRRP, and VRF, and advanced QoS, ensuring the quality of triple-play services
✓ IPv4 and IPv6 routing
✓ OSPF (RFC2328) and OSPFv3 (RFC5340)
✓ VRF light
✓ VRRPv3
✓ BGPv4 (IPv4 e IPv6)
✓ Portbased VLAN
✓ DHCP Server (RFC2131, RFC2132), Relay (RFC1542), and Client (IPv4 and IPv6) NAT/NAPTIPv4 over IPv6 and IPv6 over IPv4DNS Proxy (RFC3596)
✓ Dynamic bandwidth reallocation between service classes
✓ Differentiated Services (DiffServ) for classified packets prioritization;
✓ Manageable via Telnet or SSHv2
✓ SNMPv1, SNMPV2, and SNMPv3 agents, with support for MIB II, IFTable and proprietary MIBs
✓ Integrated ITU G.984 GPON ONU
✓ Integrated Active Ethernet port
✓ Operates simultaneously in router and bridge modes
✓ Green Ethernet - Energy-Efficient Ethernet
✓ Easy installation and configuration

TECHNICAL INTERFACES

INTERFACES

SFP OPTICAL INTERFACE

SFP compatible:

- 1000BASE-T
- 1000BASE-SX
- 1000BASE-LX
- 1000BASE-ZX
- 1000BASE-BX

SFF OPTICAL INTERFACE GPON/AE

Single-mode SC/APC female plug connector

Class B+ optical module

1310nm upstream (Tx)

Optical transmission potency: +0.5 to +5.0 dBm

Reception sensibility: -8 dBm to -28dBm

GPON ITU-T G.984 standard compliant:

- G.984.1 General Characteristics
- G.984.2 Physical Media Dependent (PMD) layer Specification
- G.984.3 Transmission convergence layer Specification

1490nm downstream

1310nm upstream

Maximum 2.488 Gbps Downlink/1.244 Gbps Uplink data rate

Maximum reach of 20 km per GPON interface

ELECTRICAL ETHERNET GIGABIT

10/100/1000 Mbits

RJ45 plug

Auto MDI-X

FUNCIONALITIES

VLAN

VLAN PUSH and POP

Portbased VLAN

VLAN Trunking or Access

VLAN Stacking (QinQ)

VLAN translation

ROUTING

IPv4 and IPv6 routing

Static routing

Fluctuating traffic by weight or by object track

Routing between VLANs

Dynamic traffic authorization through MD5 (RFC1321)

OSPF (RFC2328) and OSPFv3 (RFC5340)

RIPv1 (RFC1058), RIPv2 (RFC2453), RIPng (RFC2080)

VRF light

VRRPv3

BGPv4 (IPv4 and IPv6)

PIM-SM

ADRESS MAMAGEMENT

DHCP Server (RFC2131, RFC2132), Relay (RFC1542), and Client (IPv4 and IPv6)

NAT/NAPT

IPv4 over IPv6 and IPv6 over IPv4

DNS Proxy (RFC3596)

DNS Relay

Dynamic DNS

PPPoE client (RFC2516)

GPON

Supports static and dynamic bandwidth allocation (SBA/DBA)

Allows up to 256 port-IDs for Downstream and Upstream

IEEE 802.1Q compliant support for VLANs

Traffic prioritization by port, VLAN, VLAN + CoS (802.1p), or CoS only;

Authenticated activation via serial number or password

Supports GEM Port for multicast

Up to 7 T-CONTs

Downstream traffic protection through AES encryption with a 128 bits key

Downstream (Rate Limit) and upstream (Traffic Shaping) bandwidth limitation

GERENCIAMENTO E CONFIGURAÇÃO

Configuration via command line (CLI)

Telnet or SSHv2 servers for local or remote management

Management via NMS (Voice and AE functionalities via configuration templates)

SNMPv1, SNMPV2, and SNMPv3 agents, with support and MIB II

Import and export of local or remote configuration

Firmware upgrade via FTP, TFTP, HTTP and OMCI (present GPON interface)

NTP (RFC1305) with pairs authentication

Syslog

Dying Gasp

Firmware redundancy

Debug and diagnostics tools

SECURITY

Configuration mode protection via password with up to three levels of access

AAA authentication: TACACS (RFC1492), TACACS+, RADIUS (RFC2138, RFC2139)

SPI (Stateful Packet Inspection) type firewall

Packet filtering by port, source, or destination IP address, protocol, packet type, and TCP flags

QoS

Inbound traffic classification, marking, and conforming

Traffic classification via: IP address and L3 and L4 protocols

Dynamic bandwidth reallocation between service classes

5 QoS classes

Queueing strategy: FQ (Fair Queue), WFQ (Weighted Fair Queue),

CBWFQ (Class Bases Weighted Fair Queue) and LLQ (Low Latency Queue)

Differentiated Services (DiffServ) for classified packets prioritization;

Hierarchical Token Bucket (HTB)

Discard prioritization policy

MECHANICAL, ELECTRICAL AND ENVIRONMENTAL FEATURES

POWER SUPPLY

Internal source INPUT: 110/220VCA OUTPUT: 12VDC@4A

93 to 253 VAC

MAXIMUM CONSUMPTION

Up to 15W

ENVIRONMENT

Operating temperature: 0°C to 50°C

Relative humidity: 0 to 95% (non-condensing)

WEIGHT AND DIMENSIONS

Weight: Up to 1.6kg

W x H x D (mm): 320 x 158 x 43

PARKS

For more information, visit www.parks.com.br.

The information presented in this document is subject to change without previous notice.