KF312

This device is an EPON ONU device. As compared to other broadband access technologies such as xDSL and cable modem, Passive Optical Network (PON) technology offers some compelling advantages, including a long-term life expectancy of the fiber infrastructure, lower operating costs through the reduction of "active" components, support for greater distances between equipment nodes, and most importantly, much greater bandwidth.

This device provides the core functionality of an 802.3ah Ethernet Passive Optical Network (EPON) Optical Network Unit (ONU) solution. The device is targeted at Fiber-to-the-Home (FTTH) solutions and can also be used as the uplink physical layer (PHY) device in a Fiber-to-the-Cabinet solution.

EPON Protocols

- Implements standard-compliant Ethernet Multi-point MAC control functions specified in IEEE 802.3ah*
- Supports point-to-point emulation between each ONU and OLT using Logical Link Identifier (LLID)
- Supports complete processing and generation of MPCP control messages

Wireless Features

- Complies with IEEE 802.11n, IEEE 802.11g and IEEE 802.11b
- Provides WPA/WPA2 and WPA-PSK/WPA2-PSK authentication and TKIP/AES encryption security
- Multi SSID
- Access Control List
- Provides 64/128-bit WEP encryption security
- Wireless operating range: Indoor up to 100m, Outdoor up to 300m
- Wireless transmit power: 20dBm
- Antenna power: 3dBi

Network Protocols

- NAT, static routing and RIP-1 / 2
- Universal Plug and Play (UPnP) compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- SNTP, DNS relay and IGMP proxy

QoS

- Classification Rules
- Priority Queuing
- 802.1p

VPN Pass-Through

- IPSec/PPTP/L2TP Pass-through

Network Protocols

- Static IP, Dynamic RIPv1, RIPv2 support
- Network Address Translation (NAT)
- Port Forwarding
- NAT Application Level Gateway for popular applications
- DHCP Server/Relay/client
- DNS Relay Agent
- DMZ support
- DDNS support
- UPnP (Universal Plug and Play)
- TR069 CWMP
- PPP Auto Reconnect and configurable timeouts
- PPP Auto Reconnect on WAN Access/PPP on Demand
- IGMP v.1/v.2 snooping
- IGMP Multicast Support
- ALG for SIP and H.323

Management Support

- Web Based GUI
- Upgrade or update via FTP/HTTP
- Command Line Interface via serial interface or Telnet
- Diagnostic Test
- Firmware upgrade-able for future feature enhancement
- Supports Remote Access Control

Security support

- NAT for basic Firewall support
- State Packet Inspection (SPI) for Firewall with denial-of-service (DoS) protection
- ALG (Application-level gateway) for NAT/PAT support

- 2 Level (User/Admin) Password Authentication to Router
- IP Filtering
- MAC Filtering
- Parental control

Operating System Support

- Windows 98 / 98 SE, 2000, ME, XP, NT, Vista, 7
- Macintosh
- Linux

Ports

- 1 1.25G EPON Port
- 4 10/100M LAN Ports (RJ45)(MDI/MDIX)

LED Indicators

- PWR,LAN1,LAN2,LAN3,LAN4, WAN,WLAN, ACT

Environment

- Operating Temperature: 0°C~40°C
- Storage Temperature: -30°C~60°C
- Operating Humidity: 10%~90% non-condensing
- Storage Humidity: 5%~90% non-condensing

Accessories

- RJ45 cable   x 1
- Power Adapter   x 1
- Installation Manual   x 1