EPON ONT
1 GE+3 FE+1 CATV+ Wi-Fi

MODEL: FHR1404KB

Overview

EPON ONT FHR1404KB is one of the multi interface (4FE, Wi-Fi, CATV) type series products designed for the broadband access market based on EPON technology to meet the needs of broadcasting and Telecom operators for broadband access and FTTH. It meets the requirements of IEEE802.3ah and China Telecom EPON equipment technical requirements specification, and has good compatibility with the mainstream manufacturer's central office OLT. The device supports the up-link and down-link symmetric 1Gbps transmission rate, providing users with good QOS guarantee and flexible bandwidth allocation. Ethernet business and IP integrated services. Integrated CATV optical receiver function, together with ONU to form a single-fiber FTTH solution. Integrated wireless function, fully compliant with 802.11 n/b/g wireless standard protocol, built-in high-gain directional antenna, wireless transmission rate up to 300Mbps, with strong penetrating power and wide coverage, providing users with more efficient data transmission guarantee.

Characteristics

- Plug and play, integrate auto detection, auto configuration and auto firmware upgrading;

- Support flexible QinQ VLAN,DHCP server/relay and IGMP/ MLD multicast monitoring function;

- Support diagnostic monitoring and remote disabling of fiber optical;

- Support 802.11n Wi–Fi（T/R）function;

- CATV function manageable,support CATV remote shutdown;

- Support NAT and firewall function;

- WAN support networking bridge, route and bridge/route mixed mode;

- Full speed 1G non–blocking switching

- 2048 MAC address table

- Support VLAN, transparent, tag, translation, trunk, etc.

- Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc

- Integrated IEEE802.1p QoS with four level priority queues

- Support IPv4/ IPv6 IGMP snooping and MLD snooping

- Support bridge, route and bridge/route mixed mode

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Specification

Technical items	Descriptions	
Dimension	185*145*50mm(length*width*highs)	
Net weight	≤0.3Kg	
Fiber port	SC/APC (Single fiber) Downstream rate 1.25Gbps, Upstream rate 1.25Gbps	
Wavelength	Tx 1310nm, Rx 1490nm, RF1550nm	
Fiber interface	SC/PC	
RX sensitivity	<−27dBm　(1490nm)	
WLAN	IEEE802.11b/g/n,　300Mbps, a built−in antenna	
LAN	1*10/100/1000Mbps+3*10/100Mbp adaptive Ethernet ports, full/half duplex, RJ45 interface	
Throughput	Throughput can reach 900Mbps or more	
DC power	12V 1A, external AC−DC power adapter	
POTS	1*FXS, RJ11 connector	
Button	Reset, power, WIFI	
Power	≤10W	
Operation	Working temperature: −5～+55℃　working humidity:10～90% (non−condensation)	
Storage	Storage temperature: −30℃～+60℃ storage humidity: 10～90% (non−condensation)	
CATV Parameters	Optical Receive	−15～+2 dBm
	AGC range	−8～+2 dBm
	Fiber return loss	>50 dB
	wave length	1100～1600 nm
	Connector	SC/APC
	C/N	≥ 50 dB
	C/CTB	≥ 62 dB
	C/CSO	≥ 61 dB
	BW	40~ 1000 MHz
	Output level	≥ 82 dBμV

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Application

FE/GE/CATV

IPTV/VOD/CATV

GE/10GE

SNI

OLT

IP

FE/GE/10GE

WDM

IMS/Softswitch

NMS

FTTCab/PTP

Splitter

ONU

POTS
CATV
FE/GE

Splitter

FTTO

Splitter

FTTH

FTTB/C

MDU

PBX

FE/GE

ONT

ONT

ONT

ONT

POTS
WiFi
FE/GE

ONT

VOIP
IPTV
FE/GE

ONT

ONT

ROUTER

ONT

WiFi
IPTV
FE/GE