KLF-OG02B-CATV xPON ONT

1GE+ 1FE +N300 Wi-Fi+ 1POTS+ CATV

KALIF
凯利华电子

Overview

The KLF-OG02B-CATV is a ONT in the all-optical access solution. It uses the xPON technology to implement ultra-broadband access for users. It provides 1GE port, 1FE port, 2.4G Wi-Fi, 1POTS and 1CATV. The high forwarding performance ensures the user experience of data and HD video services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

It is suitable for Middle range and small company, SOHO and home smart broadband network access with safe FTTH Network gateway, with powerful date processing and make use of xPON uplink, it complies with G.984 and Telecom PON request, operative and compatible with most OLT equipment.

It is with Router, Switch, Safety, meet basic Broadband internet network access demand, support safety management, internet contents filtration, support WEB Management, support OAM/OMCI/TR069. Bring much convenience for the network management and maintenance.

Models & Appearance

KLF-OG02B-CATV Specification

Device Parameters

Dimensions (H x W x D) (mm)	26 mm x 156 mm x 108 mm	**Weight**	About 195 g
Indicators	POWER/PON/LOS/LAN1/LAN2 / WPS/WLAN	**System power supply**	< 12W
Operating temperature	0°C to +40°C	**Power adapter**	100–240 V AC, 50–60 Hz 12 V DC, 1 A
Operating humidity	5% RH to 95% RH (non-condensing)	**Ports & Button**	NNI: xPON UNI: 1GE+1FE+2.4GWi-Fi+ 1POTS 1Reset 1WPS 1PWR 1CATV
IC integration	RTL9602C-VD5+RTL8192FR+ PEF31001VSV12	**Memory**	DDR 128MB (IC built-in) Flash 128MB

Interface Parameters

xPON Port	• Class B+ • Receiver sensitivity: -27dBm • Wavelengths: US 1310 nm, DS 1490 nm • Wavelength blocking filter (WBF) • Flexible mapping between GEM Port and TCONT • xPON: consistent with the SN or password authentication defined in G.984.3 • Bi-directional FEC • SR-DBA and NSR-DBA

Ethernet Port	• Ethernet port-based VLAN tags and tag removal • 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission • QinQ VLAN • Limit on the number of learned MAC addresses • MAC address learning • Local switching/isolation based on Ethernet ports • Transparent transmission of IPv6 packets at Layer 2
WiFi	• IEEE 802.11 b/g/n • 2 x 2 MIMO • Antenna gain: 5dBi • WMM • Multiple SSIDs • WPS • Wireless rate up to 300Mbps
Product Function	
Data service	• Multiple pattern of high-speed internet access • Line-speed transmission of all packet-length range data • Advanced data features such as VLAN tagging, flow classification and packet filtering • Built-in layer 3 routing and local gateway • With WiFi Network access, 802.11 b/g/n WLAN
Multicast Video Access Service	• Supports data-based video content transmission (via multicast or unicast). • Support IGMP snooping function to provide further application optimization. • Upon the IGMP Snooping function activated, it will monitor the members who join and leave the multicast group at the Ethernet port and selectively transfer the multicast data stream
GATEWAY FEATURES	• Support multiple wan interface • Support WAN Connection • PPPoE • DHCP • Static linking • Automatic address assignment for LAN • DNS Extender • Network address translation (NAT)/Network address port translation (NAPT) • Port forwarding • Static Routing • Flow classification and QoS based on layer 3 and 4 identification • Access Control List (ACL) • Support for vpn transmission based on pptp, l2tp and ipsec protocols • Firewall • application-level gateways (ALG) • DMZ • dynamic domain name service(DDNS) • Support NTP Protocol • Universal plug-and-play (UPnP) • IGMP Agent

ANALOG RECEIVER ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit	Notes
Frequency range	BW	45		1002	Mhz	RF Bandwidth
Frequency Response	FLA			3	dB	RF Flatness
RF Output power	PO	17			dBmv/CH	Note
RF Output Impedance	ZO		75		Ω	Over frequency range,typical
RF Return Loss	RL	14			dB	45M-1002M
RFOutputTilt	TLT	0	2	5	dB	
RF Output range adjustment	ADJ	10			dB	10-20dBmV Adj. at AGC closed
MER (Note 5)	MER	34			dB	-8dBm Input Optical Power
MER @-10dBm	MER2	32			dB	-10dBm Input Optical Power
Carrier to Noise Ratio	CNR	46			dB	-8~+2dBm Input Optical Power
Carrier to Noise Ratio	CNR2	42			dB	-10~-8dBm Input Optical Power
Compound Second Order	CSO	55			dBc	+2dBm(Note 4)
Compound Triple Beat	CTB	55			dBc	
Power Supply Voltage(12V)	12Vcc	11	12	14	V	
Power Supply Voltage(3.3V)	3.3Vcc	3.13	3.3	3.47	V	
ESD Voltage	ESD	500			V	HBM
			±8000		V	contact discharge
			±1500		V	air discharge
ROHS Compliance			Rohs-6			
Flame retardant requirement			Ul94-V0			For combustible materials including plastics

KALIF
凯利华电子

Company：SHENZHENSHI KALIF ELECTRONICS CO., LTD

Address：No. 19, Xifu Road, Hongxing Community, Songgang Street Office, Baoan District, Shenzhen，China

TEL: 86-755-27516288

FAX: 86-755-27516388

E-mail: ganjj@kalif.com.cn

Website: www.kalif.com.cn

Scan to visit the mobile website   Follow the official WeChat