

# OPTRONIX OP-101E HGU (Home Gateway Unit)



**Model No. : OP-101E**

## 1. Overview

- OP-101E series single-user router is designed for deferent FTTH solutions by OPTRONIX, The carrier-class FTTH application provides data service access.
- OP-101E series adopts high-performance and low-consumption chips, and supports CTC 3.0 Interconnection and interworking standard of China Telecom. With the help of NGBN View NMS, it can provide subscribers with abundant services, and totally meet the needs of carrier-class FTTH devices.

## 2.Functional Feature

- Router mode supports PPPoE/DHCP/ static IP
- Support port-based rate limitation and bandwidth control;
- In compliant with IEEE802.3ah standard
- Upto 20KM transmission distance
- Support Data encryption, group broadcasting, port vlan separation
- Support Dynamic Bandwidth Allocation
- Support auto discovery/Link detection/remote upgrade of software

### 3.Hardware Specification

Item		Parameter
<b>Interface</b>	PON Interface	1 optical interface Meet 1000BASE-PX20+ standard  Symmetric1.25Gbpsupstream/downstream SC single-mode fiber  split ratio:1:64 Transmission distance 20KM
	User Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	Power Interface	12V DC Power supply
<b>Performance Parameters</b>	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: -1~4dBm  Rx Sensitivity: -27dBm  Saturation Optical Power: -3dBm  Connector Type: SC  Optical Fiber: 9/125µm single-mode fiber
	Data Transmission Parameter	PON Throughput: Downstream 950Mbps; Upstream 930Mbps , 1000Mbps  Packet Loss Ratio:<1*10E-12 latency: <1.5ms
	Gateway	Router mode supports PPPoE/DHCP/ static IP  WAN support Route rand Bridge mode WAN support Internet 、 VoIP 、 IPTV 、 TR069  LAN supports DHCP and static IP  Support NAT and NAPT  Support UPnP

	Business Capability	<p>Layer 2 wire speed switching</p> <p>Support VLAN TAG/UNTAG , VLAN conversion</p> <p>Support Port-based speed limitation</p> <p>Support Priority classification</p> <p>Support storm control of broadcast</p> <p>Support IEEE802.3 QAM, can be remotely managed by OLT</p>
<b>Network Management</b>	Management Mode	<p>Support Remote management through SNMP and Telnet</p> <p>Local management</p>
	Management Function	Status monitor, Configuration management, Alarm management, Log management
<b>Indicator</b>	LED Indicator	<p>PWR: Power up or down</p> <p>SYS: System instructions</p> <p>LOS: Optical Link Status</p> <p>PON : Registered</p> <p>LINK/ACT: Link Status of Ethernet Interface</p>
<b>Physical Features</b>	Shell	Plastic casing
	Power	<p>External 12V 0.5A AC/DC power supply adapter</p> <p>Power consumption: &lt;2W ( FD101HC ) ,&lt;2.3W(FD111HC)</p>
	Physical Specifications	Item Dimension : 120mm(L) x 80mm(W) x 26mm (H)
	Environmental Specifications	<p>Item weight : 0.1kg</p> <p>Operating temperature: 0 to 50 °C</p> <p>Storage temperature: -40 to 85 °C</p> <p>Operating humidity: 10% to 90% (Non-condensing)</p>