Tenda
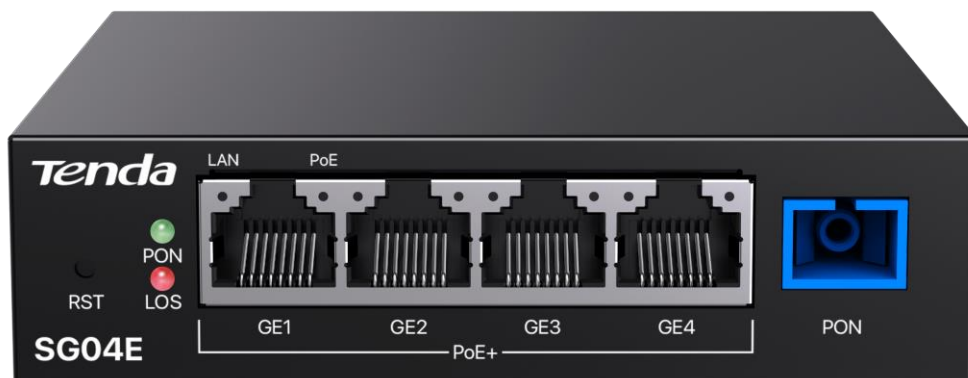
All for better networking.

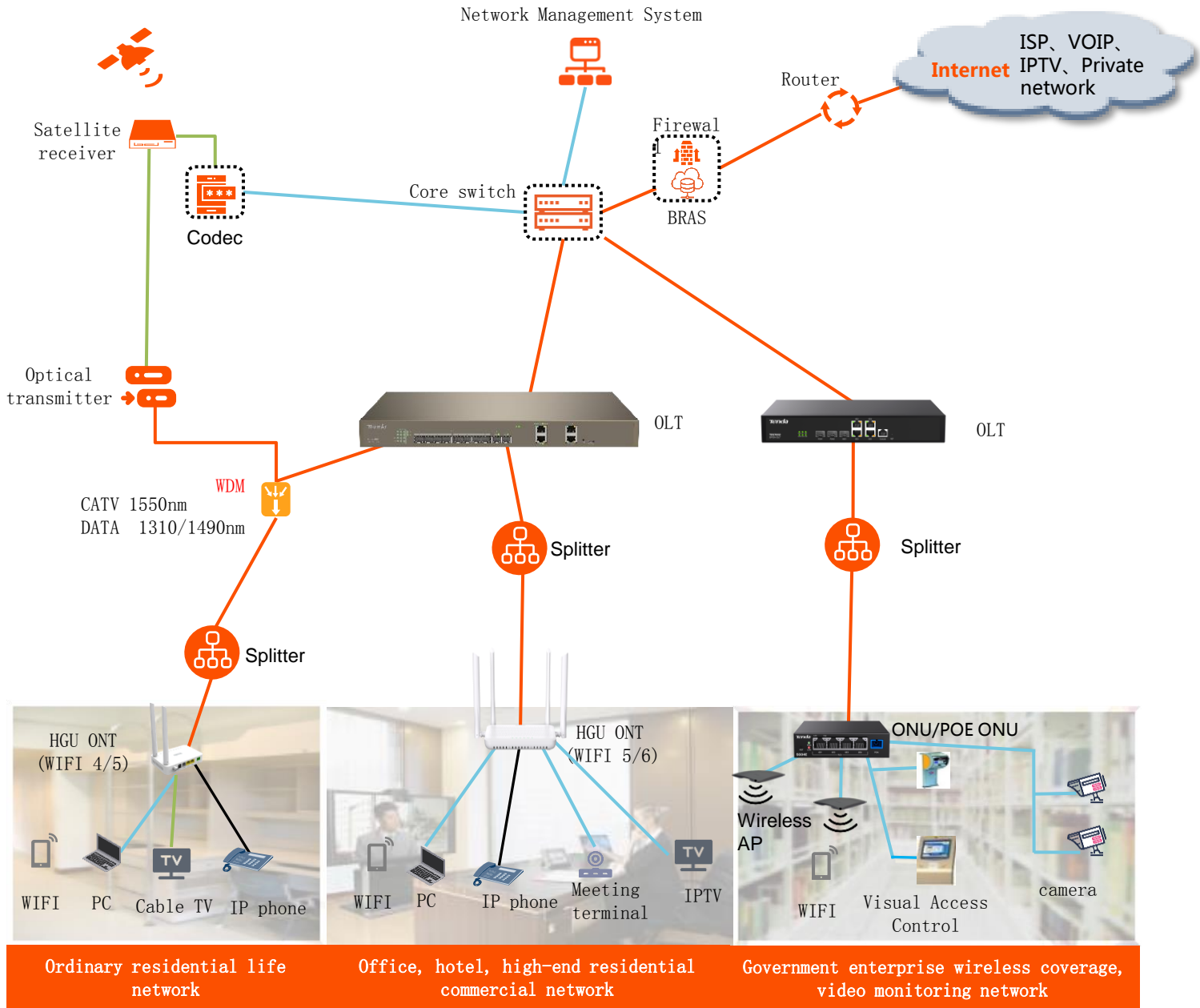# SG04E

4GE PoE xPON ONU

SG04E

4GE PoE xPON ONU

Product Description

SG04E is an iron shell xPON ONU that can provide 4 GE Ethernet ports and supports PoE/PoE+functionality，A single port can support up to 30W power supply,The entire machine supports 60W PoE power supply, providing high-quality data access and video backhaul support for enterprise parks, video backhaul and other scenarios.

Product topology

Legend:
- Fiber Cable
- Ethernet Cable
- Catv Cable
- Telephone Cable

Network Management System

Satellite receiver

Codec

Optical transmitter

CATV 1550nm
DATA 1310/1490nm

WDM

Splitter

Core switch

Firewall

BRAS

Router

Internet ISP、VOIP、IPTV、Private network

OLT

OLT

Splitter

Splitter

HGU ONT (WIFI 4/5)

WIFI PC Cable TV IP phone

Ordinary residential life network

HGU ONT (WIFI 5/6)

WIFI PC IP phone Meeting terminal IPTV

Office, hotel, high-end residential commercial network

ONU/POE ONU

Wireless AP

WIFI Visual Access Control camera

Government enterprise wireless coverage, video monitoring network

SG04E/4GE PoE xPON ONU

Tenda

Product Features

Easy to manage and maintenance

Ready to use，automatic business operation
Remote monitoring and management：Support remote restart of faulty cameras/AP for remote malfunction

Intelligent POE

Supports standard POE/POE+power supply
Intelligent identification of PD, fast and permanent PoE, ensuring uninterrupted business of PD
Single port provides a maximum power supply of 30W, automatically matching the power waste of connected devices, energy-saving and power-saving

Highly reliable, compact, and easy to deploy

Not afraid of cold at minus 20 ℃
Not afraid of cold at 55 ℃ above zero
6KV ports lightning protection
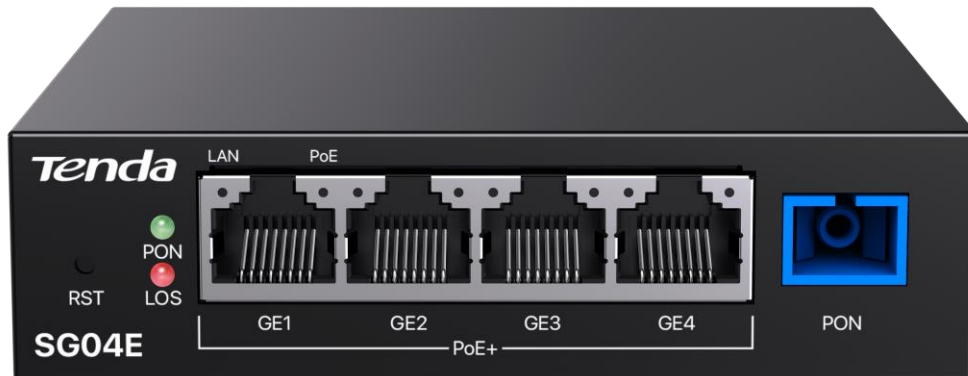Small iron shell, flexible deployment：

Good OLT compatibility

Tenda lab has conducted several compatibility tests on global mainstream OLT brands, such as Huawei, ZTE, Fiberhome, NOKIA, CALIX, etc., to ensure that ONT is perfectly adapted to the ISP local environment

SG04E/4GE PoE xPON ONU

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Product interface

Character Panel	Interface/button name	Quantity	Description
RST	Reset key	1	Used to manually restart the product
GE1~4	GE ethernet port	4	Provide 4 GE network ports, supporting PoE/PoE+ functionality
PON	xPON service port	1	Provides xPON service interfaces
DC	power interface	1	Used to connect 53V DC power adapter

LED screen printing	LED Indicator Type	color	Status	Description
PON	ONU registration indicator	green	Solid on	The ONU is registered successfully.
			Blinking	The ONU is registering.
			Off	The ONU is unregistered.
LOS	PON port optical signal indicator	red	Blinking	The received optical power is lower than the optical receiver sensitivity.
			Off	The received optical power is at a proper value.
LAN	LAN port indicator	green	Solid on	The LAN port is connected. No data is being transmitted.
			Blinking	The LAN port is transmitting data.
			Off	The LAN port is disconnected.
PoE	PoE port indicator	orange	Solid on	The network port is connected to the receiving device and the power supply is normal
			OFF	The network port is not connected to the powered device, or there is no power supply

Tenda

Specification

Hardware Features	
Standards	ITU G.984.1, ITU G.984.2, ITU G.984.3, ITU G.984.4, IEEE 802.3ah，IEEE 802.3at，IEEE 802.3af
Optical Mode	Class B+
Optical Wavelength	Transmit at 1310nm, Receive at 1490nm
Transmission Distance	20km Max
Bandwidth	EPON：Upstream 1.244Gbps Max, Downstream 1.244Gbps Max GPON：Upstream 1.244Gbps Max, Downstream 2.488Gbps Max
TX Power	0.5~5dBm
RX Power	-28~-8dBm
Dimensions （L×W×H)	100×100×26mm
Input Voltage & Frequency	100～240 V AC，50/60 Hz
External Power Supply	DC 53V /1.2A
lightning Surge	GE: Differential mode:1KV;Common mode:6KV AC Power：Differential mode:4KV;Common mode:4KV
Max PoE output power	Each GE port can support a maximum of 30W and the entire machine can support 60W
Power Consumption	≤3w（PoE port does not accept electrical devices）； ≤63w（PoE port connected to max power consumption powered device）
Certification	CE, RoHS
Software Features	
Basic functions	Support MPCP discovery & registration Support SN/Loid+password/Loid authentication Support triple churning Support dynamic bandwidth allocation（DBA） Support remote/local upgrade of ONU firmware
PON type	xPON type (EPON or GPON) and automatically connects to EPON/GPON OLT
Manage	WEB/TELNET/OAM/OMCI
LAN	Support port loopback, rate limiting Support ONU encryption Support traffic control
Multicast	IGMP snooping
QoS	Ethernet port speed limit，802.1p priority，SP/WRR/SP+WRR
Intelligent PoE	Intelligent identification of PD terminal devices Fast and permanent PoE Support remote reboot of PD devices

Tenda

Specification

Environment	
Operating Temperature	-20°c ~ 55°c
Storage Temperature	-40°c ~ 70°c
Operating Humidity	10% ~ 95% （Non-condensing）
Storage Humidity	5% ~ 90% (Non-condensing)

SHENZHEN TENDA TECHNOLOGY CO.,LTD.