



# E1801-G ONU

## Product Overview

STEC E1801-G ONU is smart ONU with 1 Gigabit port designed for multi-service networks. It is complied with IEEE802.3ah and relevant requirements for EPON ONU regulated in Technical Requirements of YD/T 1475-2006—Ethernet-Based EPON and China Telecom EPON Technical Requirement. STEC E1801-G Series can be well connected with OLT from the mainstream manufacturers.



## Product Characteristics

## **High Access Capacity**

It supports the symmetric uplink/downlink 1.25Gbps PON transmission rate. Connected with STEC OLTs, it can realize 1:64 splitting ratio. The network covering radius can reach to 20km.

## Secure Service Carrying Ability

For ensuring the secure service carrying ability of ONU, STEC has developed techniques including VLAN, STP, ACL, QoS, security filtering and Broadcast Storm Control.

## **High Service Control Capability**

It supports DBA and Rate-Limit. It supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to appropriately share 1.25Gbps bandwidth resource. It also supports QOS function, which guarantees a reliable service quality and service priority.

### **Rich OAM Function**

It supports standard OAM and expanded OAM defined by Chinese Telecom CTC2.1/3.0, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OAM defined by STEC.

#### Complete Interaction Capacity

It is complied with IEEE802.3ah and relevant requirements for EPON ONU regulated in Technical Requirements of YD/T 1475-2006—Ethernet-Based EPON and China Telecom EPON Technical Requirement 2.1/3.0.

## Advanced Energy-saving Technique

It supports the "GreenTouch" architecture and "Smart@CHIP".







The splitting ratio ups to 1:64

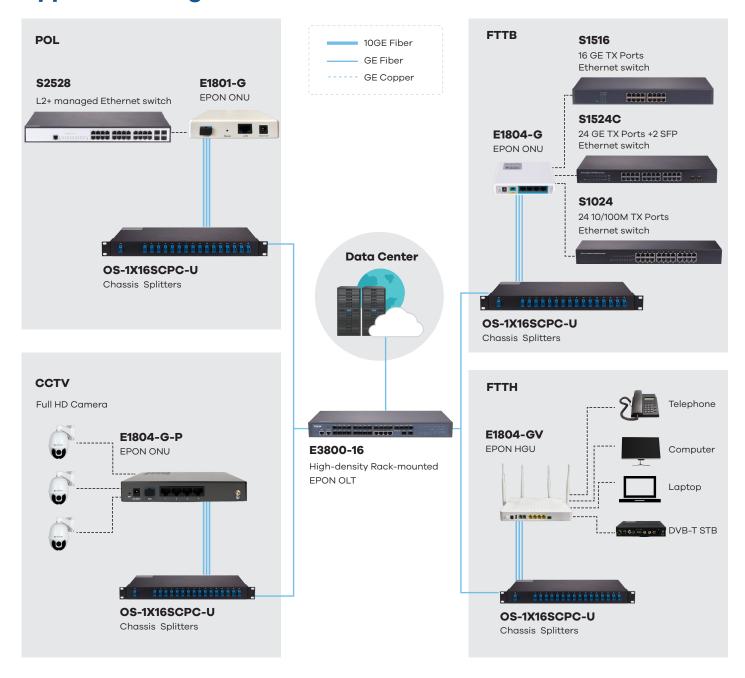
# **Model Lists**

## E1801-G EPON ONU



- 1 EPON interface(SC/UPC)
- 1 GE TX Port
- 1 Reset

# **Application Diagram**



STEC E1801-G ONU

# **System Performance**

Item	E1801-G		
Service interface			
PON ports			1SC/UPC
Ethernet ports			1 GE TX
Optical power	TX power		0-4 dBm
	RX sensitive		≤-27dBm
Power supply	<del>-</del>		
AC adaptor	_		Input: 100-240V AC Output: 12V/0.5A
Max. consumption (W)			6
System capacity			
Chassis	Dimensions (WxDxH mm)	105 x 75 x 26	Weight (Kg)(empty) 0.1
Package	Dimensions (WxDxH mm)	148 x 123 x 4	7 Weight (Kg) 0.2
<b>Environmental Spe</b>	cifications		
Operating	Temperature 0~45℃		Humidity 10%~85% (non-condensing)
Storage	Temperature -40°C ~85°C		Humidity 5%~95% (non-condensing)
Accessories			
Parts			Power adaptor

# **Technical Specifications**

## **Standards**

- · IEEE802.3ah
- PRC Community Industry Standard (YD/T 1475-2006)
- IEEE 802.1D, Spanning Tree
- · IEEE 802.1Q, VLAN
- IEEE 802.1w, RSTP
- ITU-T Y.1291

## VLAN

- · 64 VLAN (1~4094)
- · Port based VLAN
- IEEE 802.1Q VLAN
- Tag/Transparent/Aggregation /Trunk/Translation mode VLAN
- CTC2.1/3.0 defined VLAN

### **EPON Service**

- Triple-churning algorithm encryption
- MAC/Loid/Hybrid authentication

#### Qos

- Backpressure flow control (half-duplex)
- IEEE 802.3x flow control (full duplex)
- · Against Head of Line mechanism
- IEEE 802.1p, CoS
- · Four priority queues on each port
- WR, SP and FIFO queue schedule algorithms
- · Port rate limit
- SLA and DBA

## **Management**

- Management modes including CLI, HTTP, SNMP and TELNET
- Software upgrade through TFTP and WEB, OAM, etc.
- Local or server syslog

## **Network Security**

- · MAC address number limit
- · MAC ACL
- · L2~4 IP ACL
- · Port protection
- · Port storm control

#### **Multicast**

- · IGMP-Snooping
- CTC defined dynamic multicast function
- · MLD-Snooping
- · Multicast group limitation
- · Multicast fast-leave

## Reliability

- · Loop detection
- Dying-Gasp
- TX/RX optical power alarm

# **Ordering Information**

Model	Description	
E1801-G	FTTH/O ONU, 1 EPON interface (SC/UPC), 1 GE TX port, plastic hull, DC12V/0.5A, external adaptor	

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