





V2801 Series Product Introduction

Version V1.3

Release Date 2017-02-21

Product Overview

Product		Type	Routing	Wireless
EPON ONU	V2801HE	1EPON+1GE	--	--
	V2801ZE	1EPON+1GE	Support	--
	V2801RW	1EPON+1GE+WIFI	Support	Support
GPON ONU	V2801ZG	1GPON+1GE	Support	--
	V2801RG	1GPON+1GE	--	--

Product model	Product shows
V2801HE	
V2801ZE	
V2801RG	
V2801ZG	
V2801RW	

Technical Specifications

- Power adapter input: 220V AC, 50HZ
- System power supply: See the nameplate on the device
- Ambient temperature: -20 ~ +55°C Ambient humidity: 10% ~ 90%(non-condensing)

■ Store temperature: -30 ~ +60°C Store humidity: 10% ~ 90%(non-condensing)

■ For other technical specifications, see the following table:

Model	Dimension (L x W x H)	Power	Power Consumption	Weight (No Power Adapter)
V2801HE	120mm×78mm×30mm	12V,0.5A	≤4W	About 100g
V2801ZE		12V,0.5A	≤4W	About 100g
V2801ZG		12V,0.5A	≤4W	About 100g
V2801RG		12V,0.5A	≤4W	About 100g
V2801RW	120mm×78mm×30mm + External antenna	12V,0.5A	≤5.3W	About 130g

EPON ONU (V2801HE / V280ZE)

Parameter Name	Hardware Parameter	
	V2801HE	V2801ZE
Main chip	Realtek	ZTE
PON	EPON, SC single-mode/single-fiber, symmetric 1.25Gbps	
Wavelength	Tx 1310nm, Rx 1490nm	
Sensitivity	<-27dBm(PX20+)	
Overload	> -3dBm(PX20+)	
Optical Type	SC/PC	
Interface Type	1*10/100/1000Mbps Auto adaptive Ethernet interfaces, Full/Half Duplex, RJ45 connector	
Indicators	5, For SYS、LINK、REG、LOS、POWER	

Parameter Name	Software Parameter	
	V2801HE	V2801ZE
Internet connection	Bridge	Bridge / Routing
Basic	Support MPCP discover & register Support authentication Mac/ Loid/ Mac+Loid Support Triple Churning Support DBA bandwidth	
Alarm	Support Dying Gasp Support Port Loop Detect Support Eth Port Los	
LAN	Support Port rate limiting Support Loop detection Support Flow control Support Storm control	
		Support Mac limiting(max mac limit 500)

VLAN	Support VLAN tag mode Support VLAN transparent mode Support VLAN trunk mode(max 16 vlans)	
	Support VLAN 1:1 translation mode(max 15 vlans) Support VLAN N:1 Aggregation (max 8 vlans)	Support VLAN 1:1 translation mode (max 16 vlans)
Multicast	Support IGMPv1/v2 Support IGMP Snooping Max Multicast vlan 8	
	Max Multicast Group 200	Max Multicast Group 255
L3	None	Support IPv4、 IPv6 and IPv4/IPv6 dual stack Support WAN DHCP/PPPOE/Static IP Support Static Route Support NAT Support Port forwarding Support DHCP server
QoS	Support 8 queues	Support 4 queues
	Support SP and WRR Support 802.1P Classification: D-MAC/S-MAC/D-IP/S-IP/L4-S-Port/L4-D-Port/Vlan/Cos/Ether Type/DSCP	
Management	Support CTC OAM 2.0 and 2.1 Support WEB Support TELNET Support CLI	
Throughput	Upstream >900Mbps Downstream >960Mbps	
Packet lost	14Hours /Lost 0	

EPON WiFi ONU (V2801RW)

Parameter Name	Hardware Parameter
	V2801RW
Main chip	Realtek
PON	EPON, SC single-mode/single-fiber, symmetric 1.25Gbps
Wavelength	Tx 1310nm, Rx 1490nm

Sensitivity	<-27dBm(PX20+)
Overload	>-3dBm(PX20+)
Optical Type	SC/PC
Interface Type	1*10/100/1000Mbps Auto adaptive Ethernet interfaces, Full/Half Duplex, RJ45 connector
Wireless	Compliant with IEEE802.11b/g/n, 300Mbps, 2T2R one external antenna and one internal antenna
Indicators	5, For WiFi、LINK、REG、LOS、POWER

Parameter Name	Software Parameter
Internet connection	Bridge / Routing
Basic	Support MPCP discover®ister Support authentication Mac/Loid/Mac+Loid Support Triple Churning Support DBA bandwidth
Alarm	Support Dying Gasp Support PortLoopDetect Support Eth Port Los
LAN	Support Port rate limiting Support Loop detection Support Flow control Support Storm control Support Mac limiting(max mac limit 500)
VLAN	Support VLAN tag mode Support VLAN transparent mode Support VLAN trunk mode(max 16 vlans) Support VLAN 1:1 translation mode(max 16 vlans)
Multicast	Support IGMPv1/v2 Support IGMP Snooping Max Multicast vlan 8 Max Multicast Group 255
QoS	Support 4 queues Support SP and WRR Support 802.1P Classification: D-MAC/S-MAC/D-IP/S-IP/L4-S-Port/L4-D-Port/Vlan/Cos/Ether Type/DSCP
L3	Support IPv4、 IPv6 and IPv4/IPv6 dual stack Support WAN DHCP/PPPOE/Static IP Support Static Route Support NAT Support Port forwarding Support DHCP server

Wireless	Support 802.11b/g/n and Mixed mode Support No-auth、WEP、WPA-PSK and WPA2-PSK function with AES、TKIP encryption
Management	Support CTC OAM 2.0 and 2.1 Support WEB Support TELNET Support CLI
Throughput	Upstream >900Mbps Downstream >960Mbps
Packet lost	14Hours /Lost 0

GPON ONU (V2801ZG / V280RG)

Parameter Name	Hardware Parameter	
	V2801RG	V2801ZG
Main chip	Realtek	ZTE
PON	GPON, SC single-mode/single-fiber, Upstream 1.25Gbps, Downstream 2.5Gbps.	
Wavelength	Tx 1310nm, Rx 1490nm	
Sensitivity	<-27dBm(CLASS B+)	
Overload	>-8dBm(CLASS B+)	
Optical Type	SC/PC	
Interface Type	1*10/100/1000Mbps Auto adaptive Ethernet interfaces, Full/Half Duplex, RJ45 connector	
Indicators	5, For SYS、LINK、REG、LOS、POWER	

Parameter Name	Hardware Parameter	
	V2801RG	V2801ZG
Internet connection	Bridge	Bridge / Routing
Basic	Support authentication SN / Loid / Loid+Password TCONT(Max 8) GEM(Max 32) Support Upstream and Downstream FEC Support AES Support Key switching Support DBRu	
Alarm	Support Dying Gasp	
LAN	Support Port rate limiting Support Flow control Support Storm control	

VLAN	Support VLAN tag mode Support VLAN transparent mode	
	Support VLAN trunk mode (max 8 vlans) Support VLAN 1:1 translation mode(max 8 vlans)	Support VLAN trunk mode (max 16 vlans) Support VLAN 1:1 translation mode(max 16 vlans)
Multicast	Support IGMPv1/v2 Support IGMP Snooping Max Multicast vlan 8	
	Max Multicast Group 64	Max Multicast Group 255
QoS	Support 4 queues Support SP and WRR Support 802.1P Classification: D-MAC/S-MAC/D-IP/S-IP/L4-S-Port/L4-D-Port/Vlan/Cos/Ether Type/DSCP	
L3	none	Support IPv4、 IPv6 and IPv4/IPv6 dual stack Support WAN DHCP / PPPOE / Static IP Support Static Route Support NAT Support Port Forwarding Support DHCP Server
Management	Support ITUT984.x OMCI Support WEB Support CLI	
Throughput	Upstream >900Mbps Downstream >960Mbps	
Packet lost	14Hours /Lost 0	