T602E Datasheet

Industrial ONU Date: 2024-05-23

Overview

OptiXstar T602E is an optical network unit (ONU) designed for industrial campus. It provides four GE ports, bringing high-quality business experiences.

Features & Benefits

- Compact design, plug-and-play, and easy installation
- 802.1x and IPv6/IPv4 firewall, ensuring device access security and network security
- –40° C to +70° C wide temperature range, strong environment adaptability
- High reliability, 6 kV surge protection in common mode, and type B dual-homing service protection
- Multi-network convergence, supporting ONU port-level hard-isolated. Different ports of an ONU can be securely connected to multiple networks through the hard-isolated technology.

Product Specifications

Dimensions (H x W x D)	130 mm x 43.6 mm x 100 mm	**User-side port**	4*GE
Weight (excluding adapter)	<500 g	**Static power consumption**	Adapter: 3W PoF: 5W
Operating temperature	–40°C to +70°C	**Maximum power consumption**	Adapter: 4W PoF: 6W
Operating humidity	5%–95% RH, non-condensing	**Maximum frame size**	2000 bytes
Surge protection specifications	GE: 6 kV in common mode and 1.5 kV in differential mode		
System power supply	Adapter: 12V PoF: 48V	**Protection rating**	IP40
Network-side port	GPON PoF	**Installation mode**	Guide rail mounting mode

Port Parameters

PON port	**GE port**
• GPON BOB • Port type: SC/UPC • Complying with ITU-T G.984.2, Class B+ • Receiver sensitivity: –27 dBm ~ –29dBm • Overload optical power: –8 dBm **NOTICE** If the optical power is greater than the overload optical power, the device may be damaged. In this case, connect an optical attenuator. • Transmission rate: 2.488 Gbit/ downstream and 1.244 Gbit/s upstream	• Port type: RJ-45 • 10/100/1000 Mbit/s auto-sensing,Compliant with IEEE 802.3a • Half duplex/full duplex auto-negotiation and configuration • MDI/MDIX automatic configuration • Configuring the number of learnable mac addresses • Ethernet port-based VLAN transparent transmission and filtering

Product Functions

Automatic service provisioning	**Intelligent O&M**	**L3 features**	**Security**
• Authentication exemption • XML/OMCI/TR069	• XML/Web UI • Rogue ONT detection and self-regulation • Ring network detection • Ring network detection/PPPoE emulation/DHCP emulation • Communication between	• Default/Static/Policy/Service route • VLAN binding • ALG/UPnP/ARP • DDNS/DMZ/DNS/NAPT • PPPoE/Static IP address/DHCP • Port mapping/Port trigger	• 802.1x • IPv6/IPv4 firewall • MAC address filtering/IP address filtering/URL filtering • Anti-DoS/ARP attack • Static MAC addresses binding • Device access control

	internal and external servers of an enterprise	• IPv4/IPv6 • Multi-network segments and route forwarding supported by service ports • IPSec tunnel	• SPI firewall • ONU Port-Level Hard-Isolated
Multicast	**QoS**	**L2 management**	**Network Protection**
• IGMP v2/v3 snooping • Dynamic controllable multicast • IGMP proxy • MLDv1/MLDv2 snooping	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation	• DHCP Option82 • PITP • BPDU transparent transmission	• Type B single-homing • Type B dual-homing (supported in Layer 2 forwarding)

Power Module

6.1 Industrial-grade Adapter

6.2 Common Adapter

Industrial-grade Adapter

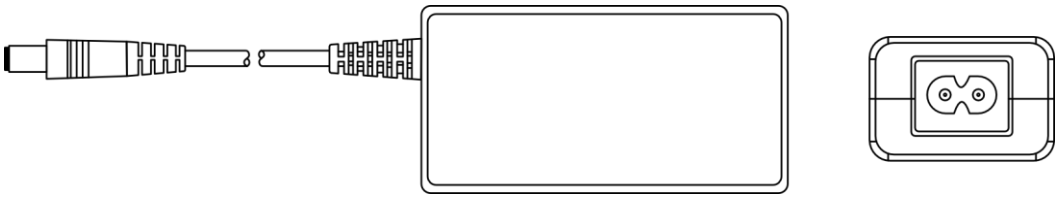
Item	Specification
Appearance	
Input and Output	power input (High-voltage AC/DC integrated): • 88~300V DC (Industrial terminal) • 90~264V AC (Industrial terminal) power outputs: • 12V DC (Industrial terminal)
power consumption	60W
Weight	0.9 Kg
Dimensions (W*D*H)	40 * 133 * 150mm
Storage temperature	–40°C ~ +85°C

Item	Specification
Installation mode	DIN guide rail mounting mode
Operating temperature	–40°C ~ +70°C
Operating humidity	5%RH to 95%RH (non-condensing)

Auxiliary list (delivered with the power module)

Item	Quantity	Description
AC power cable	1pc	• Rated voltage: 250 V AC • Rated current: 10 A • Cable length: 1.0 m
Single-wire cord end terminal	3pcs	• Cable diameter: 1.5 mm^2 • Insertion depth: 8 mm

Common Adapter

Item	Specification
Appearance	
Dimensions (W*D*H)	96 mm * 46.6mm mm * 30 mm
Input and Output	90–300 V AC input, rated 12 V/1 A DC output
Power plug type	C8 socket
Weight	0.107 Kg
Operating temperature	–40°C ~ +55°C

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