光语
GLORY

OptiXstar T823E-T-G
Case-shaped Industrial ONU

Datasheet

Product Overview

The OptiXstar T823E-T-G is an industrial-grade edge computing IoT gateway ONU used in the Industry OptiX solution. On the network side, it provides 2 XGS-PON upstream ports. On the user side, it provides 8 GE ports with the PoE++ function, 2 RS232/RS485 serial ports, and 2 DI/DO ports. The product supports high-performance forwarding, edge computing, IoT access, and 1588v2 time synchronization with nanosecond-level transmission precision, providing an ideal network solution integrating IoT and edge computing for the electric power industry.

Technical Specifications	
Dimensions (W × D × H)	250mm × 180mm × 43.6mm (without mounting ears) 482.6mm × 180mm × 43.6mm (with 19-inch mounting ears)
Weight	About 1.8kg
NNI	1*XGS-PON SFP+ + 1*XGS-PON BOB
UNI	8*GE(PoE++) +2*RS485/RS232 + 1*DI + 1*DO
Static Power Consumption	11 W (PoE port without PD)
Maximum Power Consumption	239 W (PoE ports connected with PDs)
Maximum PoE Output Power Consumption	220 W (for total power consumption) 60 W (for every GE port power consumption)
Protection Level	IP40
System Power Supply	PoE power supply scenario: DC 54 V to 57 V Non-PoE power supply scenario: DC 12 V to 60 V NOTE · The external power supply system needs to be purchased separately. 240 W · PoE AC power module PAC240S56-CN is recommended for the external power supply system.
Rated Voltage and Current	DC 56V, 4.5A
Surge Protection Specifications	Ethernet port: common mode 6 kV; differential mode: 1.5kV DC power port: common mode 4 kV; differential mode 2 kV
EMC	Class A
Heat Dissipation Mode	No fans, natural heat dissipation
Operating Temperature	-40℃ to +70℃
Operating Humidity	5% to 95%RH (non-condensing)
Clock Synchronization	Supports 1588v2 time synchronization with a synchronization precision of 50ns. Edge computing
Edge Computing	
CPU	ARM, Dual Core@1 GHz, providing 1 computing power for edge computing
Container	Maximum open storage capacity: 256 MB; Maximum open memory: 1.5GB Installing, uninstalling, starting, and stopping apps Installing and uninstalling containers Upgrading apps in overwriting and incremental modes IEC61850 and time service with a precision of 10 μs over third-party container software
Port Parameters	
NNI - XGS-PON Port (1*SFP+ + 1*BOB) · Port type: SC/UPC · Complying with ITU-T G.9807.1, Class N1/N2 · Transmission rate: RX 9.953 Gbit/s, TX 9.953Gbit/s · Maximum transmission distance: 20 km · Optical receiver sensitivity: –28dBm · Overload optical power: –8dBm NOTICE If the optical power is higher than the overload optical power, the equipment may be reset or damaged. In this case, please connect an optical attenuator.	UNI - GE Electrical Port · Port type: RJ-45 · PoE++, complying with IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt · Auto ports speed(10/100/1000 Mbit/s)
	UNI - RS485/RS232 Port · Port type: RJ-45 · RS485: complying with TIA/EIA-485, ITU-T V.24, ITU-T V.28 · RS232: complying with TIA/EIA-232, ITU-T V.24, ITU-T V.28
	UNI - DI/DO · The DI is connected to devices such as the door status sensor, infrared sensor or other devices · The DO is connected to the external alarm device or other devices · DI/DO port type: RJ-45
	PWR Port - DC · Port type: 2-pin Phoenix terminal

Function List		
Automatic Service Provisioning · Authentication exemption · XML/OMCI	Layer 3 Features · Default/Static/Policy/Service Route · VLAN binding · ALG/UPnP/ARP · DDNS/DMZ/DNS/NAPT · PPPoE/Static IP/DHCP · Port mapping/Port trigger · IPv6	Security · Filtering based on MAC/IP/URL · DoS/ARP anti-attacks · Web session number restriction · Device access control · 802.1xAuthentication Modes: EAP- MD5, TLS, TTLS, and PEAP · Static MAC address binding · IPv6/IPv4 firewall · ONU Port-Level Hard-Isolated
Network Protection · Type B Protection · Type C Protection · Ring network detection		
Multicast · IGMP v2/v3 snooping · Dynamic controllable multicast · IGMP Proxy · MLDv1/MLDv2 snooping	Smart O&M · XML/WebUI · Centralized management oneSight · Rogue ONT detection and self-regulation · PPPoE/DHCP simulation testing · Serial port data collection and transmission · Transparent transmission of serial portdata · High temperature alarm and shutdown	Layer 2 Management · DHCP Option82 · PITP · BPDU transparent transmission · LLDP/LLDP-MED
QoS · Ethernet port ratelimitation · 802.1p priority · SP/WRR/SP+WRR		

240 W AC PoE Power Module Specifications	
Item	**Specification**
Appearance	
Input and Output	One power input: · 77 V to 300 VDC (Industrial terminal) · 90 V to 290 VAC (Industrial terminal) Four power outputs: · 56 VDC (Industrial terminal)
Power Consumption	240 W
Weight	1.47 Kg
Dimensions (W × D × H)	65 mm × 133 mm × 150 mm
Storage Temperature	-40℃ to +85℃
Installation Mode	DIN guide rail mounting mode
Operating Temperature	-40℃ to +70℃
Operating Humidity	5% to 95%RH (non-condensing)

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