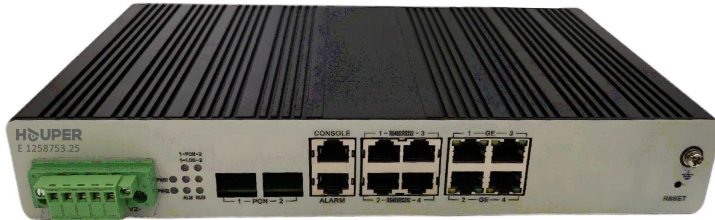


## Industrial Dual PON ONU HOU14865



### Product Description:

HOU14865 is an industrial grade dual PON port ONU. Industrial-grade ONU equipment for natural heat dissipation of power distribution and power consumption special network. Provides 2xGPON/EPON ports, 4 GE electrical ports + 4 RS232/485 serial ports, and 4 DI alarm inputs. The product can be applied to remote information collection and transmission of power system (remote dynamic loop control, monitoring, remote over-meter), and can also meet construction needs such as video surveillance.

The EPON access of this product follows IEEE802.3ah and meets the "YD/T 1475-2006 Access Network Technical Requirements - Ethernet-based Passive Optical Network (EPON)" and "China Telecom EPON Equipment Technical Requirements V3.1" Requirements for GEAPON ONU equipment, at the same time, it follows the main communication standard of the power industry "Ethernet-based Passive Optical Network (EPON) System" and the relevant specifications of the industrial-level requirements of the

power industry. Adopting network standards, it has good openness, wide application, transparent and unified TCP/IP protocol, and standardized OAM and SNMP management.

GPON access follows the ITU G.984 series of standards and meets "GB/T33845-2017 Access Network Technical Requirements - Gigabit Passive Optical Network (GPON)", "YD/T1949-2009 Access Network Technical Requirements - Gigabit Passive Optical Network (GPON)" and "China Telecom GPON Equipment Technical Requirements V2.0" for the relevant requirements of GPON ONT equipment, good compatibility, support for standard OMCI and SNMP management.

### Main Features:

- **Dual PON and dual MAC design, strong and flexible networking model** tree-shaped, chain-shaped hand-in-hand ring and other structures can also be flexibly adopted.
- **Adaptive GPON/EPON Passive Optical Transmission Network** ONU adopts "hand in hand" full protection switching type high reliability topology structure, 1+1 protection function of power grid communication link and realizes protection switching less than 10ms, ensuring the reliable operation of power grid communication system. In addition, according to the actual distribution network structure, the is reliable and stable. Single fiber

bidirectional is used to carry high-bandwidth services, and the network supports multi-level optical splitting bus-type architecture, which is in line with the distribution network transmission line structure.

■ **Provide multi-service QOS guarantee**

It supports a variety of QOS methods of GPON/EPON, which can distinguish business priorities well and ensure reliable operation of various businesses.

■ **Advanced Product Architecture**

Product modular design, support a variety of customized needs, dual power supply, safe and reliable. The power supply of the product supports AC220V, DC48V. Full coverage of the distribution network environment for equipment power requirements.

■ **Rich Ethernet functions**

With effective isolation guarantee mechanism, VLAN isolation, protection port, MAC address binding, IP address binding, port speed limit, queuing technology, flow control technology, etc., it has played a technical guarantee for the development of multi-service integration, and can be smoothly upgraded and expanded.

■ **Compatible with OLT from mainstream manufacturers such as Huawei ZTE and Fiberhome etc.**

Business-oriented, it provides unified network transmission and interconnection protocols, and is compatible with OLTs such as Huawei and Fiberhome. Meet the needs of multiple services, rich OAM functions, easy to learn and use.

■ **Industrial Design for Power Systems**

The ONU has dual PON uplinks, providing GEAPON, EPON, GE, RSRS232/485

and other service interfaces. Meet the wide electromagnetic interference, meet temperature range of -40°C ~ 75°C, can GB/T17626 electromagnetic compatibility adapt to various harsh environments, level 4 standards, safety requirements, etc resist strong lightning strikes and strong

**Technical parameter:**

Item	Description
	<b>HOU14865</b>
<b>Interface</b>	2*GPON/EPON ports; 4*GE LAN ports; 4*RSRS232/485 ports 1*Console management port; 1*DI (4 way) Alarm input interface
<b>PON Port</b>	Network coverage distance: 20 kilometers
	Optical interface: SC/PC
	Transmit optical power: 0 ~ 4dbm
	Received sensitivity: ≤ -27dBm
	Security: ONU supports MAC address authentication mechanism; GPON supports OID/SN authentication Support DDMI functions such as optical power detection
<b>serial port</b>	Serial port type: support RS232, RS485 full duplex/half duplex
	Maximum port rate: 9600 ~ 38400bps
	Session Type: Support TCP Server, TCP Client, UDP Support transparent transmission of IEC60870-5-101/104, IEC61850, CDT, DNP and other power communication protocols
<b>Alarm port</b>	Support alarm input interface
<b>Layer 2 function</b>	Port-based IEEE 802.1Q VLAN
	Support VLAN conversion and other functions
	Support STP function
	Support port mirroring function
	Support UNI port flow control function Support IGMP Snooping
<b>QoS</b>	Back pressure flow control (half duplex), IEEE 802.3x flow control (full duplex)
	IEEE 802.1p, CoS
	WR, SP and FIFO queue scheduling algorithms
	Port speed limit Supported business flow classifications

<b>security</b>	Support access device capacity limit, MAC address filtering function
	Support security isolation function between UNI interfaces
	Support data flow filtering function based on application layer protocol port number, IP, source and destination MAC, VLAN id
	Supports broadcast, multicast, and unknown unicast packet suppression
<b>Reliability</b>	Support dual PON port "1+1" protection automatic switching and recovery, switching and recovery delay <10ms
	MTBF: 50000 hours
<b>Manage configuration</b>	CLI, SNMP, TELNET and other management methods Software upgrade via TFTP, OAM, etc.
<b>Mechanical properties</b>	Installation: Rack Mount
	Chassis size (W×H×D) 280mm×165mm×44mm
	Protection class IP40
	Fanless, aluminum alloy chassis heat dissipation surface design
<b>Power Supply</b>	Weight: 2.5Kg
	Support DC48V, AC220V and other power supply
<b>Environmental indicators</b>	Rated power consumption < 12W
	Working environment: temperature -40°C ~ 75°C
	Storage environment: temperature -40°C ~ 85°C
	Relative humidity: humidity 5% ~ 95% non-condensing