
GL-GE224U-DP Industrial Grade ONU

GL-GE224U-DP ONU is a GPON ITU-T G.9844/988 standard, EPON IEEE 802.3ah standard, China Telecom, China Unicom interconnection standard, has good interoperability and operability, and mainstream manufacturers Huawei, ZTE, Fiberhome OLT has good compatibility. GL-GE224U-DP adopts mature technology and open network standard development, quasi-industrial design, adapt to complex high and low temperature environment, strong anti-electromagnetic interference, anti-seismic and anti-shake, to meet the requirements of different working environments. Provide efficient, reliable, and fast solutions for the Industrial Internet of Things. The equipment is safe, stable and reliable, and is suitable for the continuous operation of industrial communications.

Application areas: military control, industrial automatic control, traffic control, video control, distributed data acquisition system, power acquisition and control system, intelligent community, safe city highway toll system, etc.



Product description :

PON passive optical network supports multi-level splitting bus architecture and tree structure to meet the needs of various access environments. Using optical fiber as the transmission medium, the whole process of transmission is passive, and the operation is reliable and stable, realizing single-fiber two-way high-bandwidth service bearing. It strongly supports video, network, broadcasting, data acquisition (RS232, 485) and other multi-service parallelism, and supports each service Perform QOS service distribution and flow control.

GL-GE224U-DP industrial-grade ONU has 1 PON optical interface, 4 10/100/1000Mbps RJ45 interfaces, supports POE output power supply, and can supply power to other products according to requirements. The modular design of the product supports a variety of customization requirements, dual power supply redundant power supply, safe and reliable, small size and low power consumption, and the electromagnetic compatibility reaches level 4 standards. Dual power supply design, the product power supply supports DC12~57V or AC220V (customized), etc., fully covering the requirements of the industrial distribution network environment for equipment power supply,

GL-GE224U-DP has an effective isolation guarantee mechanism, VLAN isolation, port protection, MAC address binding, IP address binding, port speed limit, queue technology, flow control technology, etc., which provide technical guarantee for the development of multi-service integration, and can smoothly Upgrade and expand.

GL-GE224U-DP supports online alarm, performance monitoring, fault isolation and security management.

Product specification

| Item | GL-GE224U-DP |
|-------------------------------|--|
| Fixed Configuration Interface | 1*PON port SC/PC 4*GE 10/100/1000Mbps adaptive RJ45 interface Power: 90~264V AC (built-in power supply) RS232+485 |
| PON interface | GPON: Uplink 1.25Gbps, downlink 2.5Gbps transmission rate EPON: Uplink and downlink symmetrical 1.25Gbps transmission rate Network coverage radius: 20 kilometers Optical interface type: SC/PC Transmit optical power: 0~4dbm Received optical sensitivity: $\leq -30\text{dBm}$ Security: Support MAC address authentication mechanism Support DDMI functions such as optical power detection |
| Size | 137*105*42MM (length x height x width) |
| Power | DC 12~57V power supply |

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| supply | |
| Power consumption | Full load power consumption≤6W; idle power consumption≤4W |
| Full weight | 0.5Kg |
| Environmental parameters | Operating temperature: -30°C ~ 75°C Storage temperature: -40°C ~ 85°C Relative humidity: 5% ~ 95%, no condensation |

Product Features:

| Item | Parameter |
|--|--|
| PON passive optical access characteristics | <p>ITU-T G.984/G.988</p> <p>Conforms to IEEE 802.3ah EPON standard</p> <p>Communication Industry Standard of the People's Republic of China "Access Network Technology--Gigabit Passive Optical Network"</p> <p>Support a transmission distance of 20Km on a single fiber</p> <p>Support AES128 encryption and decryption function of 984 standard;</p> <p>Support G.984.x-based OMCI management channel</p> <p>Support ONU software batch upgrade, regular upgrade, real-time upgrade</p> |

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| | | Support PON port luminous power, receive optical power detection |
| Layer 2 Features | MAC | Support 4K MAC address |
| | VLAN | Support port-based IEEE 801.Q VLAN Support VLAN conversion function Support 4096 VLAN entries Support port-based VLAN Support port isolation under the same VLAN |
| | Spanning tree | Support loop detection |
| | Port | Support bandwidth control Support port flow control function Support port mirroring |
| Security features | User security | Support MAC address authentication mechanism, binding to port and port and MAC address filtering |
| | Device security | Support the prevention of various DOS attacks and virus attacks against the CPU on the control layer |
| | Network security | Support port broadcast/multicast message suppression, support security isolation function between interfaces |

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| | QoS | <p>Back pressure flow control (half duplex), IEEE 802.3x flow control (full duplex)</p> <p>Support port rate limit, supported business flow classification</p> <p>Supports advanced queue scheduling algorithms based on ports, 802.1P, and CoS custom TCP/UDP ports, and provides multiple queue scheduling algorithms such as FIFO, SP, and WRR</p> |
| | Multicast | <p>Support IGMPv1/v2/V3 Snooping</p> <p>Support cross-VLAN multicast function</p> |
| | Device protection | <p>All ports support signal lightning protection capability above 6Kv</p> <p>The power supply part supports the anti-surge capability above 4Kv</p> |
| Maintenance features | Device management | <p>Installation method: DIN rail installation, wall-mounted installation</p> <p>Support Web configuration management, CLI configuration management</p> <p>Support configuration file import and export, convenient for batch configuration</p> |