

P1100I Product Specification

Gigabit Single-Port industrial Grade xPON ONU



Introduction

P1100I dual-mode optical network unit (ONU) supports two access modes: Ethernet Passive Optical Network (EPON) and Gigabit Passive Optical Network (GPON). PoE power supply complies with IEEE 802.3af/at protocol standards. Equipped with an internal high-reliability 100-240VAC power supply for stable operation. It adopts wall-mounted installation methods to meet the needs of different application sites.

The P1100I is designed for demanding communication applications, such as video and process monitoring systems, which can benefit from scalable backbone communication networks. Equipped with high-performance forwarding capabilities, it can provide an excellent user experience for Internet and high-definition video services.

Technical Specifications

PON	1* SC/UPC Or SC/APC	Lan Port	1*10/100/1000BASE-T
Wavelength	Transmit: 1310nm Receive: 1490nm	Receive sensitivity	>-28dBm
Power input	None POE: 12-57VDC POE: 44-57VDC	power consumption	< 34W @ POE, < 4W @ None POE
Working temperature	-40~75°C (-40~167°F)	Storage temperature	-40~85°C (-40~185°F)
Relative humidity	5%~95% (non-condensing)	Fan	Fanless Design
External dimension	5.512×2.126×3.150 inch (140*54*80mm)	Weight	≤0.8kg

EMC

IEC 61000-4-2 (ESD)	Level 4 (Contact Discharge±8kV, Air Discharge±15kV)
IEC 61000-4-4 (EFT)	Level 4 (Power: ±4kV; Ethernet Port: ±2kV)
IEC 61000-4-5 (Surge)	Level 4 (Power: Common Mode ±4kV, Differential Mode ±2kV)
IEC 61000-4-5 (Surge)	Level 4 (Ethernet Port: Common Mode±4kV, Differential Mode±2kV)

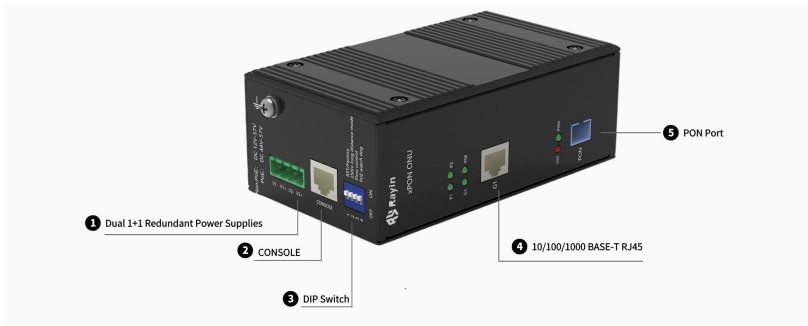
Software function

Software functions	
Standard compatibility	Compliant with IEEE 802.3ah and ITU-T G.984 standards
Security protection	Supports broadcast storm suppression
Intelligent management	Supports ONU automatic discovery, link detection and software remote upgrade
Multicast support	Supports IGMP transparent / snooping / proxy mode
Flexible Registration	Support multiple registration methods
Bandwidth management	Support Dynamic Bandwidth Allocation (DBA)
Network isolation	Support port VLAN configuration
Routing function	Support Layer 3 routing function
MAC Management	Support MAC address learning
Fault diagnosis	Supports power failure alarm function, which is convenient for troubleshooting link failures
Traffic control	Supports port-based rate limiting and bandwidth control
Transmission optimization	Supports port traffic control

Feature Overview

Industrial-grade single-port xPON ONU

The most cost-effective industrial-grade ONU, reducing costs for industrial networks.

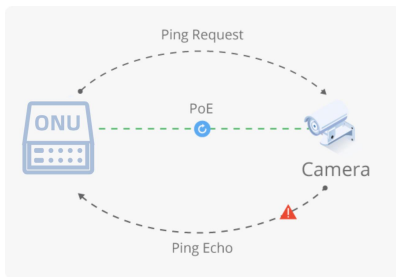


aluminum metal enclosure
Compact DIN-rail design

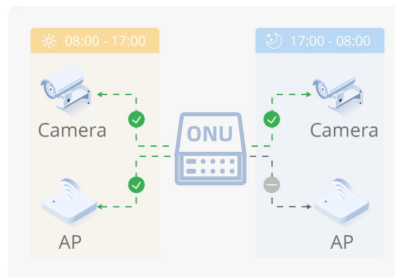
IEEE 802.3af/at/bt
PoE Standards

EPON/GPON Auto-adaptive
Operating Mode

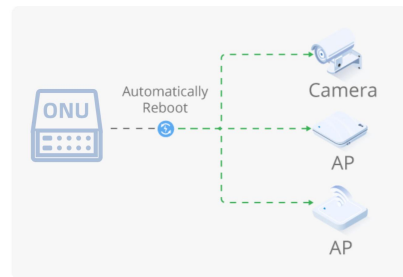
POE Watchdog



PD Alive Check



PoE Scheduling



Scheduled Power Recycling

Order Information

Model	Gigabit RJ45		PoE	Power supply	
	Non-PoE	PoE	Power	Input range	Quantity
P1100I-2P48V	—	1	30W	44-57VAC	2