



## Product Introduction

OLT-STICK-G16/G32 is a device that integrates OLT (optical line terminal) functions into a small optical module. It has the advantages of small size, easy deployment and low cost, and is suitable for all-optical use in small scenarios such as monitoring, apartment, dormitory and folk customs.

## Features

- **Compact size saves space:** Its size is only the size of a finger, and it can be directly inserted into the optical port of a router or switch. Compared with the traditional OLT cabinet, it can save 90% of the space, so that the computer room and cabinet can say goodbye to bloated space. The space occupancy is only 2% of the traditional OLT frame scheme, and the deployment density can be increased by 50 times.
- **Easy and efficient deployment:** It supports plug and play without professional configuration. The link optimization and fault detection can be automatically completed after the device is powered on, and the whole process of module activation is automated, reducing manual intervention by 90%. The deployment process can be shortened from 4 hours per node in the traditional way to less than 8 minutes for a single port, greatly improving the operation and maintenance

efficiency.

- **Excellent network performance:** It supports the standard GPON protocol, with uplink and downlink rates up to 1.25G, which can meet the needs of high-speed data transmission. At the same time, it also supports full data transmission to ensure smooth network operation in multiple scenarios.
- **The cost advantage is clear:** The modular architecture reduces the network cost to one third of the traditional solution. The equipment cost can be reduced by 72%, the power expenditure can be reduced by 88%, and the operation and maintenance cost can be reduced by 75%. The network service can be provided to users with high efficiency, stability and convenience at a low deployment cost.
- **Intelligent operation and maintenance is convenient:** The built-in AI optical link tuning algorithm can shorten the fault recovery time from 30 minutes to 60 seconds. After hot-plugging and replacing modules, automatic synchronous configuration recovery can be achieved to realize fault self-healing within seconds, making operation and maintenance easier.
- **Extensible and flexible :** Supports single-port incremental deployment for on-demand capacity expansion, eliminating the inefficiency of traditional full-card procurement. The system also seamlessly integrates with 1G/2.5G/10G SFP+ encapsulated optical interfaces, enabling a single switch to simultaneously handle diverse services including home broadband, enterprise leased lines, and 5G fronthaul networks.

Product Parameter

Hardware specifications	
product name	OLT-STICK-G16/G32
standard	SFP
model	GPON
Support the number of terminals	16/32
size	14mm*79mm*8mm
consumption	≤1.8W
Type of port	Single fiberSC
transmission medium	single mode fiber
transmission distance	8KM
transmission speed	up:1250mbps, down:1250mbps
Central wavelength	up1310nm, down1490nm
transmission mode	Full transmittance