

## Standalone GPON OLT - FD1504GS



### Product Overview

C-DATA presents the industry's leading GPON solution of FD1504GS, which complies with the relevant standards of ITU G.984.x and FSAN. FD1504GS is 1U Rack mount equipment, 8 GE uplink optic ports, 4 GE uplink electric ports, 4 GPON ports, each GPON port supports the splitting ratio of 1:128 and provides downstream bandwidth of 2.5Gbps and upstream bandwidth of 1.25Gbps, system support 512 GPON terminals accessing in for the most. The product is in compact design and convenient for flexible using, easy to deploy with high performance. It can meet the requirements of equipment performance and compact volume of the room environment. It can also satisfy the requirements of the access network and enterprise network that enhancing the network function, improving the reliability and reducing power consumption. The product is suitable for the "triple play" service, the resident of optical access network, video surveillance network, enterprise network and the Internet of the network applications.

### Product Features

**Comply with ITU-T G.984/G.988 standards and China's Telecom industry GPON standards**

**Support OMCI remote management of ONT/ONU, compatible with ITU-984.4 OMCI protocol**

**Standalone 1U 4PON compact design of OLT products**

FD1504GS provides 4GPON ports, 8 uplink GE optical ports + 4 uplink GE electric ports, 10 Gigabit card expansion slot provides 2\*10Gigabit SFP+ uplink port. Each PON port supports 128 ONT, total 512 ONT for one chassis. Support dual power supply redundancy, 220VAC and -48VDC mixed.

**SFU, HGU series ONT products, Meet the needs of the different scenarios of networking**

**The complete layer 2 switching function**

OLT is with powerful layer 2 switching capacity and complete layer 2 protocol. Supporting port aggregation, port isolate, VLAN, port speed, queue technology, flow control technology and ACL rich two layer function. Offering the technical support for the development of the multi-service fusion.

**The QoS security**

GPON products is with complete DBA function and excellent ability of QoS service. It can meet different business flow of time delay, jitter and packet loss rate of different QoS requirements.

**Easy-to-use management system**

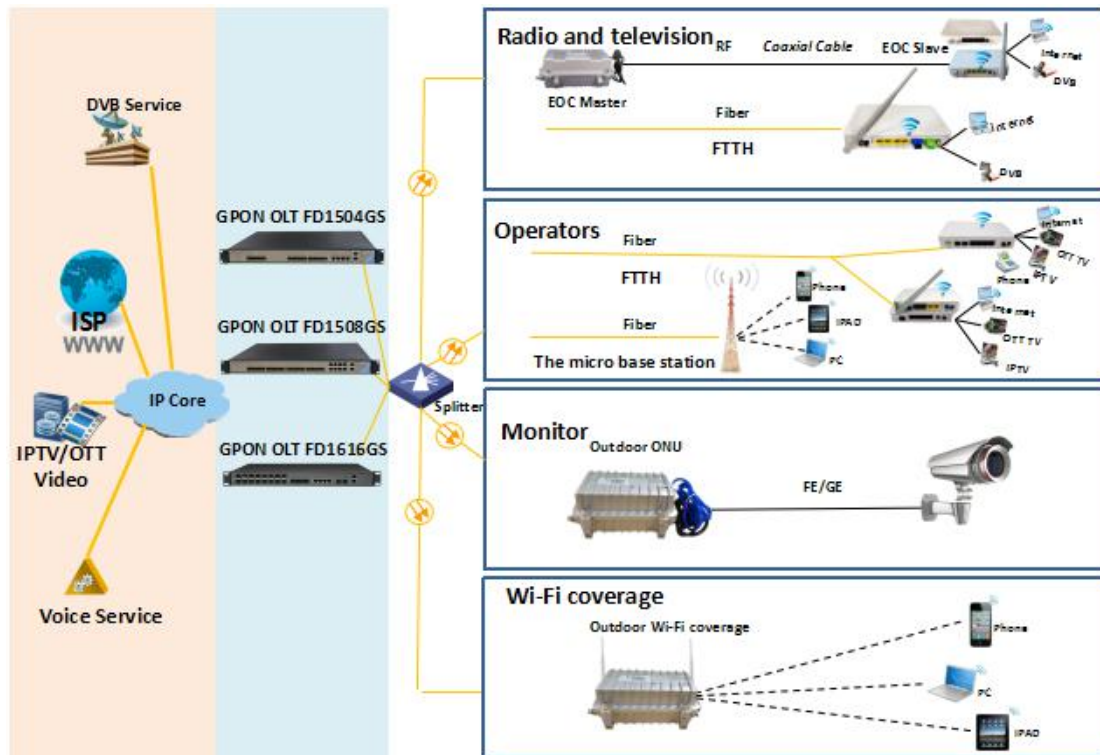
Support CLI and SNMP management. complying with OMCI standard. Realizing the business management through OMCI channel protocol, including the ONT function parameters, type and number of T-CONT business, QoS parameter, configuration request information and performance statistics, automatic notification running event system, the realization of OLT on ONT configuration, fault diagnosis, performance and security management.


**Product Specification**

Item		FD1504GS	
Management Rack	Type	1U 19-inch standard box	
	Slot	1*10 Gigabit uplink card slot 2 power module slot	
Uplink Port	Copper	4*10/100/1000M auto-negotiable	
	SFP	8 SFP slots (1000BASE-TX interface)	
	10GE card	2 SFP+ (optional)	
PON Port	Quantity	4	
	Physical interface	SFP slot	
	Interface type	ITU-TG.984.2 Class B+/Class C+	
	Max splitting ratio	1:128	
Management port		1 10BASE-TX out band port 1 CONSOLE local management port	
PON port attribute	Transmission distance	20KM	
	Port rate	Downstream: 2.5Gbps	Upstream: 1.25Gbps
	Wavelength	Forwarding: 1490nm	Receiving: 1310nm
	Interface type	SC	
	Fiber type	9/125μm SMF (Single Mode Fiber)	
	Light transmission power	Class B+ +1.5~+5dBm	Class C+ +3~+7dBm
	Receiving sensitivity	Class B+ -28dBm	Class C+ -30dBm
	Saturation power	Class B+ -8dBm	Class C+ -12dBm
Network management method		Support CLI、SNMP、TELNET	
Business capabilities		Support for state monitoring, configuration management, device log, device upgrades, device management, user management. Layer-2 switch configuration: such as Vlan, Trunk, RSTP, IGMP, QOS and so on. PON management function: OLT authentication, DBA template, service template, line template and so on.	
Backplane Bandwidth		With 10GE card:79G Without 10GE card:39G	
Size		440mm(L)*391mm(W)*44mm(H)	
Weight		4kg	
Power supply	220VAC	AC: 90V~240V, 47/63Hz	
	-48DC	DC:-36V~-72V	
Maximum power		50W	
Operating	Working temperature	0~50℃	

Environment	Storage temperature	-40~85°C
	Relative humidity	5~90% (Non-condensing)

### Typical Application



### Ordering information

Product Name	Model	Product Description
Standalone OLT	FD1504GS	4PON GPON OLT 1U chassis, 8 GE uplink optic ports, 4 GE uplink electric ports, 220VAC or -48VDC plug-in power modules, supports dual power configuration, optional 10Gbit uplink port
10Gb uplink card	FD1502GX	2*10Gb uplink interface, can be installed in the FD1508GS frame
Ethernet SFP Optical Module	AS60-EG33200-CPLD	20KM twin-fiber type
	AS60-EG35400-CPSS	40KM single fiber type
	AS60-EG53400-CPSS	
Ethernet SFP+ Optical Module	AS60-EQ33101-CPLD	10KM twin-fiber type
OLT SFP Optical Module	AS60-PG43205-CPUS	ITU-TG.984.2 Class B+
	AS60-PG43206-CPUS	ITU-TG.984.2 Class C+