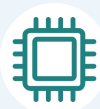*EPON ONU*

1GE

FD511G-E-F660

| High Speed CPU | Low Power Consumption | Optional Shell Supply | Software Customization |

Brief Views

FD511G-E-F660 EPON ONU is passive optical network terminal produced by C-Data for broadband access market based on EPON technology. It's are used together with EPON OLT to provide a complete broadband access solution.

FD511G-E-F660 features high-performance forwarding capabilities to ensure excellent experience with Internet. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent. It provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.

Functional Feature

- ➢ In compliant with IEEE802.3ah
- ➢ Support ONU auto-discovery/Link detection/remote upgrade of software
- ➢ Support multiple registration methods
- ➢ Support port VLAN configuration
- ➢ Support mac-address learning
- ➢ Support port-based rate limitation and bandwidth control
- ➢ Support port flow-control

- ➢ Support broadcasting storm resistance function
- ➢ Support igmp transparent/snooping/proxy mode
- ➢ Support Dynamic Bandwidth Allocation (DBA)
- ➢ Support three layer routing function
- ➢ EMS network management based on SNMP ,convenient for maintenance
- ➢ Support power-off alarm function ,easy for link problem detection

Product Interface and LED

PWR PON LOS LAN

PON Port   LAN Ports   Power Port

LED Definitions

Indicator		Description
PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;
PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off:Failed to register to OLT or no normal optical signal input;
LOS	EPON optical signals	On: Optical power lower than receiver sensitivity; Off: Optical in normal;
LAN	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;

Hardware

- **EPON Port**
  - Single mode single fiber
  - EPON：1000BASE-PX20+ symmetric
  - EPON：1.25Gbps downstream/upstream
  - Wavelength :
    Transmit: 1310nm   Receiver: 1490nm
  - Receiving sensitivity :
    EPON：-27dBm
  - Saturated power :
    EPON：-3dBm
  - Transmitting power :
    EPON:0～4dBm

- **User Port(LAN)**
  - 1*10/100/1000 M Auto-negotiation RJ45 ports
  - Full Duplex / Half-Duplex
  - RJ45, Auto-MDI/MDI-X
  - Transmission Distance 100 Meter

- Indicators
  - ➢ PWR / PON / LOS / LAN
- Power
  - ➢ External 12V/0.5A DC power supply adapter
  - ➢ Power consumption: <3W
- Dimension and Weight
  - ➢ Item Dimension：
  - ➢ 78mm(L) x78mm(W) x23.5mm (H)
  - ➢ Item weight：about 62.7g
- Environmental Specifications
  - ➢ Operating temperature: 0 to 40° C
  - ➢ Operating humidity: 10% to 90%(Non-condensing)

Software

- Management
  - ➢ EPON :OAM / WEB / TR069 / Telnet
- Register
  - ➢ Auto-discovery/Link detection/Remote upgrade software
  - ➢ Auto/MAC/SN/LOID+Password authentication
- L3
  - ➢ IPv4/IPv6 Dual Stack
  - ➢ NAT
  - ➢ DHCP client/server
  - ➢ PPPOE client/ Pass through
  - ➢ Static and dynamic routing
- Switch
  - ➢ MAC address learning
  - ➢ MAC address learning account limit
  - ➢ Port isolation
  - ➢ Port flow control
  - ➢ Broadcast storm suppression
  - ➢ VLAN transparent/tag/translate/trunk

- Multicast
  - ➢ IGMP V2
  - ➢ IGMP VLAN
  - ➢ IGMP transparent/Snooping/Proxy
- Security
  - ➢ Firewall
  - ➢ MAC address/URL filter
  - ➢ Remote WEB/Telnet access control

Application

➢ Typical Solution：FTTH
➢ Typical Business：Internet