EOC Master （ONU+EOC）CD761x

Product Overview

CD761xis the integrate EOC Master with one EOC master module and one ONU module.

CD761x EOC Master can provide high speed data service based on coaxial cable network. CD761x built in a ONU. The module supports IEEE 802.3ah standards. It provide one SC/PC optical EPONuplink port and two 10/100/1000M auto-negotiable Ethernet RJ45 ports. By using the EPON technology, the ONU Module can provide a high-speed data channel through a single optical fiber with a rate of 1.25 Gbit/s on bi-direction. In addition, it offers the QOS, flexible bandwidth allocated to provide quality high-speed data service, voice service, and video service.

The EOC Master Module is based the Qualcomm AR7410 chipset solution，with high anti jamming capability OFDM technology. The 7.5-65MHz low frequency band is used for EOC signals. Built in high isolation filter as CATV RF and EOC signal mixer, the EOC signal and CATV signal in 87~862MHz can run on one cable without interference. The EOC Master can provide high speed data service. The PHY Layer speed is 600Mbps, the MAC Layer throughput is up to 320Mpbs.

The ONU module connects with the EOC module, Ethernet data signals will be modulated into RF signals to transmit in the coaxial cable. CD761x integrating EOC and ONU can reduce the number of active node, decreasing failure rate and saving a space. It is the best choice of EPON+EOC solution for the operator.

Function Features

- High integration with two EOC Master modules and one ONU module

Company Address: Flat 6, Bldg 4,South 2 of Honghualing Industrial Zone,Liuxian Road, Xili Town, Shenzhen, Guangdong, China(518055)
Factory Address: Flat 8, Bldg 2,South 2 of Honghualing Industrial Zone,Liuxian Road, Xili Town, Shenzhen, Guangdong, China(518055)
Tel: +86-755-26014509/4710/4711 Fax:+86-755-26014506
Website: www.cdatatec.com

- Aluminum alloy die casting shaping, good heat dissipation
- Outdoor waterproof designed, 60V/220V power supply optional
- 7.5-65Mhz frequency for EOC signals., no influence on CATV Service
- Support data encryption
- Support broadcast storm limitation
- Support data packet statistics
- Support auto-update and auto-configuration
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support Port-based VLAN and IEEE802.1Q VLAN
- Support performance statistics based on ports
- Support ACL achieve the purposes of access control
- Support various LLID configuration and single LLID configuration. Different user and different service could provide different QOS by means of different LLID channels
- EMS network management based on SNMP

Specification

Item	Parameters	Specification
Specification of EOC Module		
Interface and LED Indicator	RF Port	1*EOC low-frequency signal output port, support F-Female or SMB connector
	Ethernet Port	Two10/100/1000Mauto-negotiation, RJ45
	LED Indicator	1 for Power Supply Status 1 CABLE Link Status indicator 2 for Ethernet Ports Status
Performance Parameters	RF Parameters	Frequency Band :7.5-65MHz RF Output Level:110±5dBuv Receive sensitivity:45dBuv Return Loss:>16dB Output Resistance:75Ω
	Transmission	PHY Layer:600Mbps Throughput on MAC Layer:320Mbps
	Modulation Mode	OFDM~ 2690~carriers 4096,1024,256,64,16,8~QAM, QPSK, BPSK, ROBO
	Working Mode	TDMA/CSMA
	Encryption Mode	AES-128

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Standard	EOC Standard	IEEE P1901(Draft) HomePlug AV
	Ethernet Standard	IEEE 802.3, IEEE 802.3x, IEEE 802.3u IEEE802.1P, IEEE802.1Q
Software	Network Management	WEB, CLI, SNMP
	Software Features	VLAN, QOS, Bandwidth Control, Broadcast storm limitation
Specification of ONU Module		
Interface	PON Interface	One EPON port Meet 1000BASE-PX20+ standard Up to 1.25Gbps Upstream and Down-stream SC Connector Single-mode fiber, single-strand Maximum split ratio 1:64 Up to 20Km distance @ 1:32
	Ethernet Interface	Two 10/100/1000Mauto-negotiation Full/Half-Duplex RJ45 type connector , Auto MDI/MDI-X Up to 100m distance
Performance Parameters	PON Optical Parameters	Wavelength: Upsteam1310nm, Downstream 1490nm Transmitter Optical Power: 0～4dBm Optical Receive Sensitivity: -27dBm Saturation Optical Power：-3dBm
	Data Transfer Parameters	Data Transfer Rate: Upstream 900Mbps；Downstream 950Mbps LAN Interface: 1000Mbps Packet Loss：<1*10E-12 latency：<1.5ms
	Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG，VLANconversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast
Network Management	Management Mode	Support IEEE802.3 QAM, ONU can be remotely managed by OLT Support Remote management through SNMP and Telnet Local management
	Function	Status monitor, Configuration management, Alarm management, Log management
Indicator	Indicator Description	PWR: Power up or down LOS: Optical Link Status PON：ONU registered

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		LNK: Link Status
Physical Features		
Physical Features	Power supply & Consumption	Power Supply：220V/60V optional Consumption：<10W
	Size & Net weight	Dimension：242×200×101mm Weight：2.2kg
	Environment Attribute	Working Temperature：－10～65℃ Storage Temperature：-40～85℃ Working humidity：10%～85%non-condensing Storage humidity：10%～90% non-condensing

Typical Application

- CATV
- Internet Access
- VOD
- IPTV
- Camera monitor system

Application Illustration

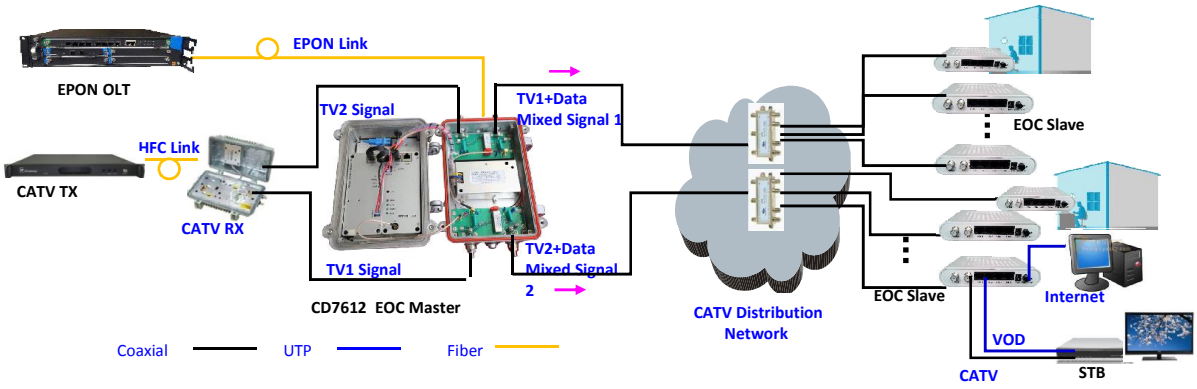

Figure 1 CD761x Application Illustration

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Order Information

Product	Item	Description
EOC Master (EOC+ONU)	CD7611-220VAC	Built-in one ONU Module and one 74 series chipset EOC Module；One EPON uplink port、one TV RF input port、one TV+data mix output port. Outdoor waterproof designed. 220VAC power supply.
EOC Master (EOC+ONU)	CD7611-60VAC	Built-in one ONU Module and one 74 series chipset EOC Module；One EPON uplink port、one TV RF input port、one TV+data mix output port. Outdoor waterproof designed.60VAC power supply.
EOC Master (EOC+ONU)	CD7612-220VAC	Built-in one ONU Module and one 74 series chipset EOC Module；One EPON uplink port、two TV RF input port、two TV+data mix output port. Outdoor waterproof designed. 220VAC power supply.
EOC Master (EOC+ONU)	CD7612-60VAC	Built-in one ONU Module and one 74 series chipset EOC Module；One EPON uplink port、two TV RF input port、two TV+data mix output port. Outdoor waterproof designed.60VAC power supply.

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