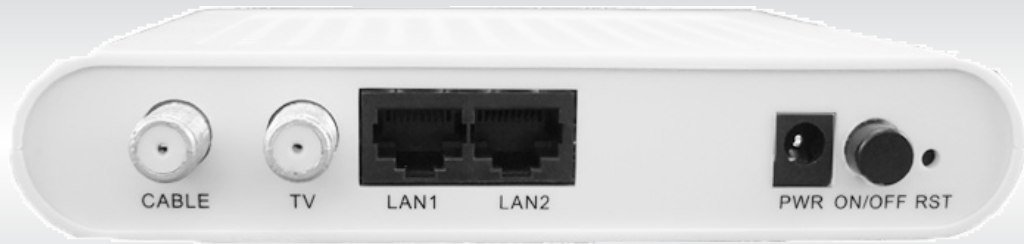**Terrabit Networks**

Terrabit EOC - Ethernet over Coax Slave side unit

PD-EOC-S2/A and PD-EOC-S4/A EOC slave units

PD-EOC-S2/A and PD-EOC-S4/A are the eoc slave based on Home Plug AV solutions for Ethernet access over coax. They work together with eoc master which is based on HomePlug AV solution as well to construct a two-layer Ethernet data transmission channel on CATV coax cable, provide the Ethernet access service based on the existing coax cable networking.

PD-EOC-S2/A and PD-EOC-S4/A adopt INT7411 chipset, and OFDM modulation technology of high interference resistance, taking up the low frequency between 7.5MHz and 65MHz to transfer data. Their physical layer speed is 500Mbps, while the maximum MAC layer throughout is 300Mbps.DeployingPD-EOC-S2/A fordataaccesscouldmakefulluseofthecurrentcoaxcablenetworkingforeasierandfasterconstructionwithout changing the current networking and having no impact on the existing CATV service.

In the theoretical network constructive application, one master could connect 253 slaves maximally, and the network structure could be star or tree PD-EOC-S2/A is slave with 2 Ethernet ports while PD-EOC-S4/A is the one with 4 Ethernet ports.

Features

- Low-frequency modulated eoc slave is adopted INT7410 chipset, HomePlug AV solution.
- Work at low frequency between 7.5 and 65MHz, without affecting the existing CATV.
- Physical layer speed: 500Mbps; Max MAC layer throughout is 300Mbps.
- Support encryption for both uplink and downlink data.
- Support 2 or 4 Ethernet ports with 10/100Mbps auto-negotiation function
- Support slave (CPE) isolation.
- Support VLAN configuration based on slave unit or slave's Ethernet ports
- Support bandwidth (speed) limitation for both uplink and downlink.
- Support QOS configuration based on slave port or VLAN.
- Support broadcast storm control.
- Support data packages count
- Automatically distribute configurations to newly connected slaves, available to use as soon as correctly connected and power on.
- Support WEB, CLI and SNMP management
- Support on-line upgrading

Specifications

Item	Parameter	Specification
Interface & Indicator	RF interface	One TV(RF signal) OUTPUT, metric or British F-connector;
		One CABLE(MIX)INPUT, metric or British F connector
	Ethernet interface	Two 10/100M Ethernet ports(AN-EOC-S2/A)
		Four 10/100M Ethernet ports(AN-EOC-S4/A)
	Power supply interface	1 DC12V power interface
	LED indicators	One power supply LED
		One system LED
		One CABLE LED for connection status
		Each Ethernet port has one LAN LED
Performance parameters	RF Attribution	Frequency: 7.5-65MHz
		Output level: 120dBuv
		Receiving sensibility: 45dBuv
		Return loss: >15dB
		Output impedance: 75Ω
	Speed	Physical layer speed:500Mbps
		Max MAC layer throughout:300Mbps
	Modulation	OFDM
		1024/256/64/16/8-QAM, QPSK, BPSK
	Work Mode	TDMA/CSMA
	Encryption	AES-128
Standards followed	EOC standard	IEEE1901(Draft)
		HomePlug AV
	Ethernet protocol	IEEE 802.3, IEEE 802.3x, IEEE 802.3u
		IEEE802.1P, IEEE802.1Q
Software	Management Mode	Support WEB,CLI and SNMP network management (through master managing slaves);
	Software features	VLAN, QOS, speed limitation, broadcast storm control, etc
Physical features	Power supply & power consumption	Power supply adapter:12VDC 0.5A
		Power consumption: <5W
	Size & N.W	size: 150×116×28mm
		Net Weight: 0.3kg
	Environment situation	Working temperature: 0~50C
		Storage temperature: -10~70C
		Working humidity: 20%~85%, non-condensation

Ordering information

- **PD-EOC-S2/A** — 2 10/100M Ethernet ports EOC slave unit
- **PD-EOC-S4/A** — 4 10/100M Ethernet ports EOC slave unit