Cisco DigiStar Ethernet over Coax (EoC) End Point (EP) E320.1

The Cisco DigiStar Ethernet over Coax (EoC) system is designed to combine a CATV signal with Ethernet data for transmission to a subscriber's home through the existing coax access network.

With Ethernet data delivered to the building, the DigiStar EoC system meets the IP interactive service requirement of cable operators for Multiple Dwelling Unit (MDU) applications. The DigiStar EoC system fully supports Video-On-Demand (VOD) and IPTV services. The EoC system also allows for subscriber service differentiation through rate limiting.

The E320.1 is the end-point device of a DigiStar EoC system. It is located in a subscriber's home to provide CATV signal pass-through, and Ethernet data to a PC or IP set-top box. It complies with HPNA 3.1 (ITU-TG.9954) standards, and provides high-speed and reliable data transmission.

Figure 1.   Cisco DigiStar Ethernet over Coax EP E320.1

Features

- Complies with HPNA 3.1 (ITU-T G.9954) standards
- Complies with IEEE 802.1p and 802.1q
- Supports PPPoE
- Configurable bidirectional data transmission band: 12-44 MHz
- Adaptive FDQAM
- Supports MDI/MDIX on two 10/100Base-T ports
- Supports Snooping (IGMP v2)
- Auto synchronization and point-to-point communication with AP device
- Supports Standard or Metric F type connector

Product Specifications

See the table below for product specifications.

Table 1. Product Specifications

Specification	Value
General Performance	
HPNA Band	12-44 MHz
CATV Band	54-1000 MHz
CATV Band Return Loss, 54-86 MHz	>16 dB
CATV Band Return Loss, 87-1000 MHz	>16 dB
CATV Band Insertion Loss, 54-86 MHz	<2.4 dB
CATV Band Insertion Loss, 87-1000 MHz	<1 dB
Link Loss (max.)	70 dB
HPNA Transmit Power	14.5 ±0.5 dBm
RF Modulation	Adaptive FDQAM
Power Consumption	≤5 W @ 12 VDC
Surge Protection	2 kV (Combination Wave) 6 kV (Ring Wave)
Interface	
Ethernet Port x 2	RJ-45 connector, 10/100 Base-T
RF Input Port x 1	Standard/Metric F-Connector, CATV + HPNA
RF Output Port x 1	Standard/Metric F-Connector, CATV
Power Adapter	
Input	220 VAC +/- 10%
Environmental	
Operating Temperature	0 to +50 °C +32 to +122 °F
Storage Temperature	−20 to +70 °C −4 to +158 °F
Relative Humidity (non-condensing)	5%-95%
Mechanical	
Dimensions (H x L x W)	25 x 127 x 73 mm 1.0 x 5.0 x 2.9 in.
Weight	0.18 kg 0.4 lb

Note: Unless otherwise noted, specifications reflect typical performance when the EP is used with the DigiStar EoC AP and are referenced to 20°C (68°F).

Ordering Information

See the table below for ordering information.

Table 2.   Ordering Information

Description	Region	Part Number
DigiStar EOC EP E320.1, 44/54 MHz, 220 VAC, Ch-C, F-Type Connector, HPNA module	China	EEP3412210000000
DigiStar EOC EP E320.1, 44/54 MHz, 220 VAC, Ch-C, F-Type Connector, with COAX Cable, HPNA module	China	EEP3432210000000
DigiStar EOC EP E320.1, 44/54 MHz, 220 VAC, US-C, F-Type Connector, without COAX Cable, HPNA module	North America	EEP3422220000000
DigiStar EOC EP E320.1, 44/54 MHz, 220 VAC, EU-C, F-Type Connector, without COAX Cable, HPNA module	Europe, Middle East, Africa	EEP3422230000000

Cisco Systems, Inc.
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