

Broadcast and IPTV Smart ONU

with 4x100M ports, CATV and WiFi

Model: EPU1704-4FC Series



Product Profile

DIBSYS EPU1704-4FC is a new generation smart ONU for integrated multi-service networks with three-in-one functions: 4 100M ports, CATV and WiFi. It is complied with the international standard IEEE 802.3ah and PRC Communication Industry Standard(YD/T1475-2006) and China Telecom EPON Technical Requirement CTC.

Features

Excellent Access Capacity

It supports the PON transmission rate of symmetric uplink/downlink 1Gbps PON transmission rate. Connected with DIBSYS OLTs, it can realize 1:64 splitting ratio. The covering radius of the network can reach to 20km.

Secure Service Carrying Ability

For ensuring the secure service carrying ability of ONU, DIBSYS has developed techniques including VLAN, STP, port isolation, ACL, QoS and broadcast storm control.

High Service Control Capability

It supports DBA and Rate-Limit. It supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to share 1Gbps bandwidth resource appropriately. It also supports QOS function, which guarantees a reliable service quality and service priority.

Rich OAM Functions

It supports the standard OAM defined by CTC2.1/3.0, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OAM defined by DIBSYS.

Complete Interaction Capacity

It is complied with IEEE802.3ah and relevant requirements for PRC Communication Industry Standard (YD/T 1475-2006) and China Telecom EPON Technical Requirement CTC2.1/3.0.

Advanced Energy-saving Technique

It supports the “GreenTouch” architecture and “Smart@CHIP”.

Technical Specifications

Attributes		
	DIBSYS EPU1704-4FC	
User trial interface		
	4 fixed 10/100M BASE-T auto-adaptation RJ45 interfaces	
Uplink interface		
	CATV optical interface	Type of the optical interface: SC/APC Output level: 76dbuv AGC: -18~-5dbm
	PON interface	Symmetric uplink/downlink 1Gbps PON transmission rate The network covering radius: 20km Type of the optical interface: SC/UPC Hi-sensible optical receiver: -27dBm Radiation power: 0 ~4dBm Security: ONU authentication mechanism
Standards		
	IEEE802.3ah PRC Communication Industry Standard (YD/T 1475-2006) IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP ITU-T Y.1291	
VLAN		
	Supports 64 VLANs (1~4094) Port based VLAN IEEE 802.1Q VLAN CTC2.1/3.0 defined VLAN	
Multicast		
	IGMP-Snooping CTC defined dynamic multicast	

	MLD-Snooping
WiFi	
	802.11b/g/n MIMO, 300Mbps (Max)
QoS	
	Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) Head Of Line (HOL) mechanism IEEE 802.1p, CoS four priority queues on each port WR, SP and FIFO Rate limit
Reliability	
	Loop detect Dying-Gasp
Security	
	Limitation to the number of MAC addresses on the port Port protection Port storm control
Management	
	CLI, Web, SNMP and TELNET Software upgrade through TFTP and WEB Local syslog or server syslog
Dimensions mm (W×D×H)	
	130 x 100 x 28mm
	Installation: plug and play
Heat dissipation	
	Supports long-time use (24 hours); The device running hot will not affect its performance or cause it break down.

Environment requirements	
	Operating environment: 0℃~45℃; 10%~85% non-condensing
	Storage environment: -40℃~80℃; 5%~95% non-condensing
Power supply	
	DC12V/1A (external adaptor power supply)
	<10W

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