

DB-CMTS8300 Three-in-one MiniCMTS



Overview

The is a three-in-one CMTS products containing optical receiver module,ONU module and the C-DOCSIS module. It is deployed at the optical nodes for the integrated solutions. The C-DOCSIS module is strictly according to its standard. With a high degree of standardization, it effectively fulfills the requirements of the existing and future C-DOCSIS technical standards. The optical receiver module and the ONU module adopt matured ones and go for commercial use stably and reliably over five years. The three-in-one modules are mutually independent and field replaceable .And the maintenance is also very convenient.

The product provides 16 QAM downstream channels, bandwidth to 800Mbps; 4 upstream QAM channels , bandwidth to 160Mbps, fulfilling the broadband accessing of 960Mbps. It can support 511 Cable Modems online simultaneously, fully compatible with the DOCSIS2.0, 3.0 Cable Modem.

Feature

- 1.C-DOCSIS module, optical receiver module and ONU module three-in-one product, integrated solution deployed in optical node.
- 2.Optical receiver adopt liner design, easy to do on-site replacement
- 3.Modules' organic intergration,reduce the overall power
- 4.Outdoor IPV6 waterproof type design, work Temperature at -25°C~75°C

- 5.1 SFP interface or 1 1000M LAN business port
- 6.Support IPQAM module
- 7.4 channels output, maximum out level is 110dbuv
- 8.4 channels QAM upstream,16 channels QAM downstream.
- 9.Upstream frequency range:5-65Mhz, down stream frequency range:87~1000Mhz(Biggest difference of the 16 frequency points is less than192 Mh)

Parameter

	Item	parameter	
MiniCMTS	DS	QAM standard	Annex A , B, C
		QAM modulation	64QAM , 256QAM
		DS channels	16
		DS maxi speed	800Mbps
		Work frequency	87Mhz~ 1000Mhz
		Channel bandwidth	6~8Mhz
	US	QAM standard	Annex A , B, C
		QAM modulation	QPSK 16QAM , 64QAM
		US channels	4
		US maxi speed	160Mbps
		Work frequency	5Mhz ~ 65Mhz
		Out level range	-13~23dbmv
	Others	maximum CM	511
		Maximum CPE	2000
		Dynamic load balancing	support
DHCP relay		support	
Qos		support	
management		Web,CLI,talnet,SSH, network	
ONU	PON interface	1Gbps transmission rate with downlink and uplink symmetry	
		Optical interface type	SC/PC
		Hi-sensible optical receiver	≥ -26dBm
		Power	2~7dBm
		security	ONU authentication mechanism
	VLAN	Port based VLAN	

		IEEE 802.1 Q VLAN	
	Service quality	Back pressure stream control(Half duplex)	
		IEEE 802.3X stream control (Full duplex)	
RF out	Out Impedance:	75	
	Band rejection	>50db	
	MER	>42db	
	Maxi power	110dbuv	
	channels	4	
Environment	Power supply	220V/110V/60V	
	Power	<50W	
	Temperature	-30°C - 70°C	
	Humidity	10% - 90%	
	Size(mm)	385x350x161	

Optical receiver liner index

Optical parameter	
Optical receiver power	+2~-9
Optical AGC range	+2~-8/-7/-6/-5(Adjustable)
Optical reflection loss	>45db
Optical Wave length	1100-1600nm
Optical receiver type	FC/APC,SC/APC(Or specified by user)
Optical type	Single mode
Link performance	
C/N	≧ 51dB
C/CTB	≧ 65dB
C/CSO	≧ 60dB
-1dBm optical input,output level is 106dB μ v	
RF parameter	
Frequency range	45/87~1003MHz
Band flatness	±0.75dB
Norminal output level	≧ 106dB μ v(4 channels distribution out), ≧ 110dB μ v(2 channels independent out)
Maximum output level	≧ 112dB μ v
Output reflection loss	(85~550MHz)≧16 / (550~1000) ≧ 14
Redundancy isolation	≧ 75

Output impedance	75Ω
Electronic control equilibrium range	0~15(steping)
Electronic control attenuation range	0~20(steping)



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