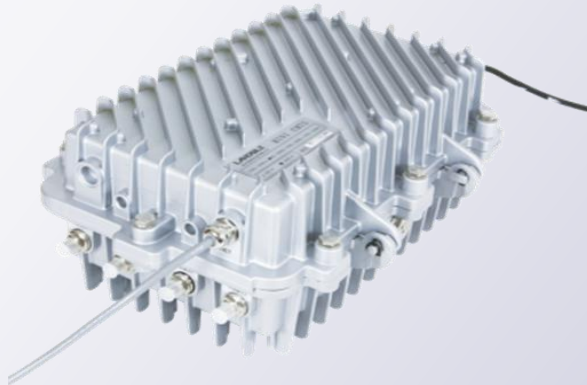


DB-CMTS8220 Outdoor CMTS



The outdoor CMTS product follow DOCSIS 3.0 standard ,Using the full DOCSIS3.0, MiniCMTS and user device fits international DOCSIS standard, effectively meet the technical standard of future DOCSIS. It support 16 QAM downstream channels to 800Mbps; 4 upstream QAM channels 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.

The next generation DOCSIS3.0 network uses CMTS series, mixing the advantage of broadcasting and flexible data interactive about IP net, to promote the value of broadcasting HFC net, is the "trump card" of the Broadcasting accessing reform.

The products can adapt to multi-environment deployment. With waterproof outdoor design, it makes the products can be deployed in optical node. Outdoor miniCMTS is not only integrated with high performance DOCSIS3.0 module, but also can be configurated with optional built-in optical receiver module, ONU module, IPQAM module according to the users' individual needs. It can realize a complete ONU all in one solution.

Feature

- 1.Outdoor IPV6 waterproof type design, work temperature at $-25^{\circ}\text{C}\sim 75^{\circ}\text{C}$.
- 2.1 SFP interface or 1 1000M LAN service port.
3. Built-in mixer, 1i n 1 out, 2 in 2 out, 4 in 4 out optional.
5. 220V or 60V power supply.
6. Uplink network interface photoelectricity is optional.
- 7.Support 60V over voltage, access current is 10A.
8. Built in IPQAM module,ONU module(To use which model is up to operator).
9. 4 channels QAM upstream, 16 channels QAM downstream.
10. Frequency range:87~1000Mhz(biggest difference of the 16 frequency points is less than192 Mh).

Parameter

Downstream specification			
QAM standard	Annex A , B, C		
QAM modulation	64QAM , 256QAM		
Uni-Channel speed	36M@64QAM		
	51M@256QAM		
DS channels	16		
DS maxi-speed	800Mbps		
Work frequency	87Mhz - 1000Mhz		
Bandwidth	6 or 8Mhz		
Input power	46dbmv (8 channels)	43dbmv (8 channels)	39dbmv (8 channels)
	41dbmv (16 channels)	38dbmv (16 channels)	34dbmv (16 channels)
Power adjusted step	0.5db		
Post-balance MER	42db		
External noise	<-20dbm		
US channel specification			
US channels	4		
US modulation	QFSK , 16QAM , 64QAM		
Uni-channel speed	0.32Mbps - 40Mbps		
US highest rate	160Mbps		
Input frequency range	5Mhz - 65Mhz		
Input level range	=H21		
RF output specification			
RF IN interface	F connector , 75		
RF IN mount	1 RFin	2 RFin	4 RFin
RF OUT interface	F connector , 75		
RF OUT quantity	1 RFout	2 RFout	4 RFout
Data port specification			
Net port speed	10/100/1000Mbps		
Net port type	1 RJ45 electric port and 1 SFP Module Interface		
Full speed support	Support		
Built-in ONU module types port : SC/APC	Optional		
SFP Module Type Port : LC	Optional		

Management specification	
RS232 serial	Support
Command line (CLI)	Support
Telnet or SSH	Support
SNMPv1 , v2 , v3	Support
DOCSIS MIBs	Support
Other functions	
Maximum CM amount	500
Dynamic load balance	Support
DHCP delay	option82 , option60
Qos	Support
VLAN process	Support
Environment specification	
Temperature	-25°C - 75°C
Humidity	10% - 90%
Alone supply	90 - 264V
Power	<35w
60V centralized supply	Option support
Size(mm)	384×271×162

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