Amplitee[®] All interconnection Amplitec achieves

C20M-5B Five Bands Repeater



Product overview

C20M-5B, developed by Amplitec R&D team, is a mobile signal repeater with high intelligence and excellent technical index. It is empowered with EDA digital simulation and it's equipped with electronic devices and RF components originated from international famous brands, so its excellent technical index and performance are guaranteed from the circuit design. It also adopts Amplitec's " isolation detection" and "digital ALC" patented technology, and its performance and functions are better than similar products.

C20M-5B Supports five frequency combinations of B1, B2, B3, B4, B5, B7, B8, B20, B28, etc, and 2G, 3G, 4G wireless networks of all operators. Besides its elegant appearance, compact size and easiness to install and maintain, it has a downlink output power of 20dBm and could cover an area of 600 m² with proper design and installation, which makes it a excellent option for solving signal weak zone in home, office, elevator, basement, etc.

Product features

- LCD display of operating figures;
- Real time isolation check and alarm:
- Idle turn-off, auto turn-off of uplink while no • active users in the coverage, lowering interference to BTS:
- Automatic linkage, Link balance function; •
- MGC, Manual control of output gain with 1dB step in the range of 31dB;
- ALC, auto control of output power for stable coverage;
- Compact size, low power consumption and easy to install;
- MTBF: up to 100,000 hours.

Amplitee Corporation

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Professional mobile communication seamless coverage solution provider

Model list:

Model	Uplink (MHz)	Downlink (MHz)	
C20M-5B-BR1	703~748/824~849/1710~1785/1920~1980/2500~2570	758~803/869~894/1805~1880/2110~2170/2620~2690	
C20M-5B-BR2	703~748/880~915/1710~1785/1920~1980/2500~2570	758~803/925~960/1805~1880/2110~2170/2620~2690	
C20M-5B-SA	703~748/824~849/1710~1755/1850~1910/2500~2570	758~803/869~894/2110~2155/1930~1990/2620~2690	
C20M-5B-EU	832~862/880~915/1710~1785/1920~1980/2500~2570	791~821/925~960/1805~1880/2110~2170/2620~2690	

Technical specification:

Item		Uplink	Downlink	
Output Power		15±2 dBm	20±2 dBm	
Gain		70±2 dB	75±2 dB	
Ripple in Band		≤6~15 dB	≤6~15 dB	
VSWR		≤2.5	≤2.5	
Max. input power without damage		-10 dBm	-10 dBm	
Gain Attentute Range		1~31 dB,step of 1 dB		
ALC control Range		≥ 25 dB	≥ 25 dB	
Courious omission	9KHz~1GHz	≤-36 dBm	≤-36 dBm	
Spurious emission	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm	
EVM		Fully comply with 3GPP		
PCDE		Fully comply with 3GPP		
ACRR		Fully comply with 3GPP		
	Band	Display Working Band and Frequency		
	Gain	Display of UL&DL Gain		
	Pout	Display DL output power		
	Work	Working normally: no display, Uplink Stand-by:display		
		Working normally: no display0;		
LCD Indication	ISO	ISO alarm&auto degrading system gain:display;		
		Self-oscillation Turn-off:display&flashing		
		Not active:no display;		
	ALC	Active@5-10dB:display;		
		Active@15-29dB:display&flashing		
Over input turn-off Function		Available		
Link Balance Function		UL&DL ALC linkage		
Auto screen lights off		No operation within 3 minutes		
Self-oscillation elimination		Available		
Noise Figure		≤10 dB	≤10 dB	
Time Delay		≤1.5 μs	≤1.5 μs	
Power Supply		DC: 12 V / 3 A		
RF Connector		N-Female		
Environment Conditions		IP40		
Operating Temperature		-10°C ~ +55°C		
Size		250*230*50mm		
Weight		<2.5kg		
-			-	



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