

S43T Series Single Band Digital Repeater



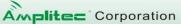
Product Features

- Sub-band frequency and bandwidth can be set by local monitoring panel, which is easier and more convenient
- Digital filter technology makes out-of-band rejection more effective
- Local or remote setting on gain, working frequency and bandwidth; convenient to check UL or DL output power, working frequency, temperature alarm and ALC alarm;
- OLED screen can clearly display working frequency, gain, output power and easily check working status of the device
- Manual gain control function, to attenuate gain with 1dB step among range of 31dB
- ALC, with wide range of 31dB, auto limit the output power to ensure stable performance.
- Device auto detect isolation after start-up, to avoid self-oscillation
- MTBF can be up to 100,000 hours

Model List

Models	Uplink	Downlink
S43T-B8	880 ~ 915 MHz	925 ~ 960 MHz
S43T-B3	1710 ~ 1785 MHz	1805 ~ 1880 MHz
S43T-B1	1920 ~ 1980 MHz	2110 ~ 2170 MHz
S43T-B7	2500 ~ 2570 MHz	2620 ~ 2690 MHz
S43T-B20	791 ~ 821 MHz	832 ~ 862 MHz





Website: www.amplitec.cn

Email: info@amplitec.cn



Professional mobile communication seamless coverage solution provider

Technical Specification

Items		Uplink	Downlink	
Operating Bandwidth		0.2~20 MHz(Frequency can	0.2~20 MHz(Frequency can be set , 200 kHz step)	
Sub-bands		1~3		
Output power		Type 25±2 dBm	Type 43±2 dBm	
Gain		Type 80±2 dB	Type 95±2 dB	
Ripple in Band		Type ≤4 dB	Type ≤4 dB	
VSWR		≤2	≤2	
Max. input power without damage		-10 dBm	-10 dBm	
Out of Band Gain		Fully comply with 3GPP	Fully comply with 3GPP	
EVM		Fully comply with 3GPP		
PCDE		Fully comply with 3GPP		
ACRR		Fully comply with 3GPP		
	9KHz~1GHz	≤-36 dBm	≤-36 dBm	
Spurious Emission	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm	
Gain Attentute Range		1~31 dB,step of 1 dB		
ALC active 10dB, output power error		△ ≤2 dB	△ ≤2 dB	
Monitoring	Local	OLED & USB		
	Remote	NMS Cloud Connection		
		1.Repeater Info		
Local Control Or Remote Control		2.UL&DL Gain		
		3.PA ON/OFF		
		4.Over Output Power Alarm Level Limit		
		5.Temperature Alarm Level Lir	nit	
		1.Over Output Alarm		
		2. Over Temperature Alarm		
Local Monitoring Or Re	emote Monitoring	3.PA Failure Alarm		
		4.Power Supply Alarm		
Noise Figure		≤6 dB	≤6 dB	
Time Delay		≤13 µs	≤13 µs	
Power Supply		AC: 220V		
RF Connector		N-Female		
Environment Condition		IP65		
Humidity		< 90%		
Operating Temperature		-10℃ ~+55℃	-10°C ~+55°C	
Dimension		490*410*190mm		
Weight		<25kg		



