

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

Technical Specification

Items		Uplink	Downlink
Operating Bandwidth		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	
EVM		Fully comply with 3GPP	
PCDE		Fully comply with 3GPP	
ACRR		Fully comply with 3GPP	
Spurious Emission	9KHz~1GHz	≤-36 dBm	≤-36 dBm
	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	
Local Control Or Remote Control		1.Repeater Info	
		2.UL&DL Gain	
		3.PA ON/OFF	
		4.Over Output Power Alarm Level Limit	
		5.Temperature Alarm Level Limit	
Local Monitoring Or Remote Monitoring		1.Over Output Alarm	
		2.Over Temperature Alarm	
		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°C ~ +55°C	
Dimension		490*410*190mm	
Weight		<25kg	