

S20T Series Dual 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,
- 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,
- Digital ALC, auto control of output power ensuring stable signal coverage,
- Device auto detect isolation after start-up, to avoid self-oscillation,
- Can be controlled and monitored, via USB connects PC for local control, via 3G or 4G modem connects PC for remote control.

Model List

Model	Uplink Frequency Range	Downlink Frequency Range
S20T-B3B8	880 ~ 915/1710 ~ 1785 MHz	925 ~ 960/1805 ~ 1880MHz
S20T-B1B8	880 ~ 915/1920 ~ 1980 MHz	925 ~ 960/2110 ~ 2170MHz
S20T-B1B3	1710 ~ 1785/1920 ~ 1980 MHz	1805 ~ 1880/2110 ~ 2170MHz
S20T-B8B20	832 ~ 862/1710~1785 MHz	925 ~ 960/791 ~ 821 MHz
S20T-B2B5	1850 ~ 1910/824 ~ 849 MHz	1930 ~ 1990/869 ~ 894 MHz
S20T-B4B5	1710 ~ 1755/824 ~ 849 MHz	2110 ~ 2155 /869 ~ 894 MHz
S20T-B5B28	703 ~ 748/824 ~ 849 MHz	758 ~ 803/869 ~ 894 MHz

Technical Specification

Items		Uplink	Downlink
Sub-bands		1~3 Can be set	
Operating Bandwidth		0.2 ~ 20 MHz (can be set , step of 200KHz)	
Output power		15 ± 2dBm	20 ± 2dBm
Gain		70 ± 2dB	70 ± 2dB
Ripple in Band		≤4 dB	≤4 dB
Gain attenuate range		1~31 dB, step of 1 dB	
ALC control range		≥ 42dB	≥ 42dB
VSWR		≤2	≤2
Max. input power without damage		-10dBm	-10dBm
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	≤-36dBm	≤-36dBm
	1GHz~12.75GHz	≤-30dBm	≤-30dBm
Monitoring & control	Local	Local OLED operation panel or PC Via USB	
	Remote	PC Via 4G Modem	
Control		UL & DL gain	
		Frequency, Bandwidth	
		Sub-band switch	
Monitoring		Output power	
		Temperature	
		Alarms (Over output, over temperature, PLL alarm)	
Noise Figure		≤8dB	≤8dB
Time Delay		≤13μs	≤13μs
Power Supply		DC 27V / 3A	
Power Consumption		< 60 W	
RF Connector		N-Female	
Environment Condition		IP40	
Humidity		< 90%	
Operating Temperature		-10°C ~ +55°C	
Dimension		268*250*96mm	
Weight		<5.5kg	