

## S20S Series Triple 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
- 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
- With 20dBm output power, coverage can be up to 1000 m<sup>2</sup>
- MTBF can be up to 100,000 hours

### Model List

Models	Uplink	Downlink
F20S-B1B3B8	890 ~ 915/1710 ~ 1785/1920 ~ 1980 MHz	935 ~ 960/1805 ~ 1880 /2110 ~ 2170 MHz
F20S-B1B3B20	832 ~ 862/1710 ~ 1785/1920 ~ 1980 MHz	791 ~ 821/1805 ~ 1880 /2110 ~ 2170 MHz
F20S-B1B3B7	1710 ~ 1785/1920 ~ 1980/2500 ~ 2570 MHz	1805 ~ 1880 /2110 ~ 2170/2620 ~ 2690 MHz
F20S-B1B7B8	890 ~ 915/1920 ~ 1980/2500~2570 MHz	935 ~ 960/2110 ~ 2170/2620~2690 MHz
F20S-B3B7B20	832 ~ 862/1710 ~ 1785/2500 ~ 2570 MHz	791 ~ 821/1805 ~ 1880 /2620 ~ 2690 MHz
F20S-B3B7B8	890 ~ 915/1710 ~ 1785/2500 ~ 2570 MHz	935 ~ 960/1805 ~ 1880 /2620 ~ 2690 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		15±2 dBm	20±2 dBm
Gain		70±2 dB	70±2 dB
Ripple in Band		≤4 dB	≤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		Δ   ≤2 dB	Δ   ≤2 dB
ALC Alarm Indicator	ALC not active	—	Green
	ALC active 5~10dB	—	Orange
	ALC active >20dB	—	Red
Monitoring and control Local		Button and OLED Display screen	
Control	1.UL&DL gain		
	2. Frequency		
	3.Bandwidth		
Monitoring	1.Output power		
	2.Temperature		
	3.Alarms(Over output alarm, over temperature alarm,PLL alarm))		
Noise Figure		≤6 dB	≤6 dB
Time Delay		≤13 μs	≤13 μs
Power Supply		DC: 27 V /8 A	
RF Connector		N-Female	
Environment Condition		IP40	
Humidity		< 90%	
Operating Temperature		-10℃ ~ +55℃	
Dimension		350*200*58mm	
Weight		<4.5kg	