

## F20S Adjustable Bandwidth Triple Band selective Repeater



### Product Features

- Can be controlled and monitored via button and OLED Display screen.
- Adjustable frequency and bandwidth.
- Uplink dormant function, the device will enter dormant mode when there is no user in the coverage area, reducing interference to the BTS;
- Low power consumption, low interference.
- Digital ALC, auto control of output power ensuring stable signal coverage.
- Anti-interference, real time auto ISO detection and Self Oscillation Elimination keeping base station away from interference.
- Manual gain attenuation, attenuation of gain in the range of 1-31dB with 1dB step.

### Model list:

MODEL	Frequency Range of Up link	Frequency Range of Down link
F20S-B1B3B8	890 ~ 915/1710 ~ 1785/1920 ~ 1980 MHz	935 ~ 960/1805 ~ 1880 /2110 ~ 2170 MHz
F20S-B1B3B5	824 ~ 849/1710 ~ 1785/1920 ~ 1980 MHz	869 ~ 894/1805 ~ 1880 /2110 ~ 2170 MHz
F20S-B1B3B7	1710 ~ 1785/1920 ~ 1980/2500 ~ 2570 MHz	1805 ~ 1880 /2110 ~ 2170/2620 ~ 2690 MHz
F20S-B2B4B5	824 ~ 849/1850 ~ 1910 /1710 ~ 1755 MHz	869 ~ 894/1930 ~ 1990/2110 ~ 2155 MHz
F20S-B1B7B8	890 ~ 915/1920 ~ 1980/2500~2570 MHz	935 ~ 960/2110 ~ 2170/2620~2690 MHz
F20S-B1B3B20	832 ~ 862/1710 ~ 1785/1920 ~ 1980 MHz	791 ~ 821/1805 ~ 1880 /2110 ~ 2170 MHz

### Technical Specification:

Items	Uplink	Downlink
Bandwidth (Frequency can be set by software)	0.2~24 MHz	0.2~24 MHz
Default operating frequency	Customer-specified frequency	
Output Power	15±2dBm	20±2dBm
Gain	Type 70±3dB	Type 70±3dB
Ripple	Type≤4 dB	Type≤4 dB
VSWR	≤2	≤2
ALC Active 10 dB	Δ   ≤2 dB	Δ   ≤2 dB
Max. Input Power Without Damage	0dBm	0dBm
Spurious Emission	9KHz~1GHz	≤-36 dBm
	1GHz~12.75GHz	≤-30 dBm
Out of Band Gain	Fully comply with 3GPP	
EVM	Fully comply with 3GPP	
PCDE	Fully comply with 3GPP	
ACRR	Fully comply with 3GPP	
Gain Attentute Range	1~31 dB,step of 1 dB	
ALC control Range	≥ 25 dB	≥ 25 dB
Noise Figure@ max. gain	≤8 dB	≤8 dB
Time Delay	≤9μs	≤9μs
AGC Alarm	NotActive	—
	Active5~10dB	—
	Active≥25dB	—
Monitoring and control	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	
Idle Shut-off Function	Available	
Real-time Self Oscillation Elimination Function	Available	
Shutoff Function	Available	
Power Supply	DC:12V/ 5A	
Power Consumption	< 75 W	
RF Connector	N-Female	
Environment Conditions	IP40	
Humidity	< 90%	
Operating Temperature	-10℃ ~ +50℃	
Dimension	360 x268x96mm	
Weight	≤ 11 Kg	