

F20S Adjustable Bandwidth Single 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-B5	824 ~ 849 MHz	869 ~ 894MHz
F20S-B8	880 ~ 915 MHz	925 ~ 960 MHz
F20S-B3	1710 ~ 1785 MHz	1805 ~ 1880 MHz
F20S-B2	1850 ~ 1910 MHz	1930 ~ 1990MHz
F20S-B1	1920 ~ 1980 MHz	2110 ~ 2170MHz
F20S-B20	830 ~ 862 MHz	791 ~ 821 MHz
F20S-B28	708 ~ 748 MHz	763 ~ 803 MHz

Technical Specification

Items	Uplink	Downlink
Bandwidth (Frequency can be set by software)	0.2~24MHz	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
Max. Input Power Without Damage	0dBm	0dBm
Spurious	9KHz~1GHz	≤-36 dBm
Emission	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	≤6 dB	≤6 dB
Time Delay	≤9μs	≤9μs
AGC Alarm	NotActive	Green
	Active5~10dB	Orange
	Active≥25dB	Red
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 alarm)	
Idle Shut-off Function	Available	
Real-time Self Oscillation Elimination Function	Available	
Shutoff Function	Available	
Power Supply	DC:12V	
Power Consumption	< 25 W	
RF Connector	N-Female	
Environment Conditions	IP40	
Humidity	< 90%	
Operating Temperature	-10℃ ~ +50℃	
Dimension	205*268*58mm	
Weight	< 3 kg	