

# **F20S** Adjustable bandwidth Dual Band selective Repeater

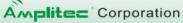


### **Product Features**

- 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-B3B8	880 ~ 915/1710 ~ 1785 MHz	925 ~ 960/1805 ~ 1880MHz
F20S-B1B8	880 ~ 915/1920 ~ 1980 MHz	925 ~ 960/2110 ~ 2170MHz
F20S-B1B5	824 ~ 849 /1920 ~ 1980 MHz	869 ~ 894/2110 ~ 2170MHz
F20S-B4B5	824 ~ 849/1710 ~ 1785 MHz	869 ~ 894/2110 ~ 2170 MHz
F20S-B2B5	824 ~ 849/1850 ~ 1910 MHz	869 ~ 894/1930 ~ 1990MHz
F20S-B1B3	1710 ~ 1785/1920 ~ 1980 MHz	1805 ~ 1880/2110 ~ 2170MHz
F20S-B3B20	830 ~ 862/1710~1785 MHz	791 ~ 821/1805~1880 MHz
F20S-B1B28	708 ~ 748/1920~1980 MHz	763 ~ 803/2110~2170 MHz



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## **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		△   ≤2 dB	△   ≤2 dB	
Max. Input Power Without Damage		0dBm	0dBm	
Spurious 9	KHz~1GHz	≤-36 dBm	≤-36 dBm	
Emission 1	.GHz~12.75GHz	≤-30 dBm	≤-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	
N	lotActive	_	Green	
AGC Alarm A	Active5~10dB	_	Orange	
A	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		
Idle Shut-off Function		Available		
Real-time Self Oscillation Elimination Function		Available		
Shutoff Function		Available		
Power Supply		DC:12V		
Power Consumption		< 55 W		
RF Connector		N-Female		
Environment Conditions		IP40		
		< 90%		
Humidity		< 90%		
	ıre	<90% -10℃ ~+50℃		
Humidity	ure			



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