

S20S Series Triple Band Digital Repeater



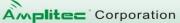
Product Features

- 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 m²
- 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 |







Professional mobile communication seamless coverage solution provider

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 | |
| Spurious Emission | 1GHz~12.75GHz | ≤-30 dBm | ≤-30 dBm | |
| Gain Attentute Range | | 1~31 dB,step of 1 dB | 1~31 dB,step of 1 dB | |
| ALC active 10dB, output power error | | △ ≤2 dB | △ ≤2 dB | |
| | ALC not active | _ | Green | |
| ALC Alarm Indicator | ALC active 5~10dB | _ | Orange | |
| | ALC active >20dB | _ | Red | |
| Monitoring and control Local | | Button and OLED Display screen | | |
| | | 1.UL&DL gain | | |
| Control | | 2. Frequency | | |
| | | 3.Bandwidth | | |
| | | 1.Output power | | |
| Monitoring | | 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 | | |



