

## CB75B SERIES

## TRIPLE BAND BOOSTER



### PRODUCT DESCRIPTION

CB75B signal booster supports B1/B2/B3/B4/B5/B7/B8/B12/B20/B28/B78 any non-overlapping tri-band signals and supports 2G, 3G, 4G and 5G networks in most countries in Europe, Africa, Middle East and Southeast Asia, etc. It features a cast-aluminum chassis with good heat dissipation, beautiful appearance, simple structure, simple installation and maintenance, high gain, high output power, and a coverage area of up to 1,000 square meters, making it the best option for mobile phone coverage in residential areas, factories, malls, supermarkets and more.

### FEATURES

- **Real-time isolation detection function**  
Start detection and alarm when isolation is not sufficient;
- **Self-excitation elimination function**  
Automatically reduce the gain when the device self-excitation by not enough isolation;
- **Automatic shutdown function**  
Auto shuts down the output when severe self-excitation or overload, to avoid equipment damage;
- **Uplink sleep function**  
The device enters sleep state when there is no user in the coverage area, reducing interference to the base station;
- **MGC function**  
Gain control function, 1dB per step, adjustable gain within 31dB;
- **ALC function**  
Automatic power control function to keep the signal stable;
- **Low noise & low radiation**  
The amplifier works with low noise and low radiation, which can effectively protect your health;
- **Cast aluminum chassis & ice-metal material**  
Adopts a cast aluminum chassis and ice-metal material helps cooling, and the outer casing absorbs heat discharge, which is durable and safe;
- **LCD display**  
Clearly show the real-time signal strength and equipment operation parameters;
- **1-3 indoor antennas** can be connected at the same time, and can be kept stable.

## MODEL LIST

| Model          | Frequency of UL                                      | Frequency of DL                                      |
|----------------|--|--|
| CB75B-B1B3B7   | 1710~1785 / 1920~1980 / 2500~2570 MHz                | 1805~1880 / 2110~2170 / 2620~2690 MHz                |
| CB75B-B1B3B8   | 890~915 / 1710~1785 / 1920~1980 MHz                  | 935~894 / 2110~2170 / 1805~1880 MHz                  |
| CB75B-B1B8B20  | 832~862 / 890~915 / 1920~1980 MHz                    | 791~821 / 935~960 / 2110~2170 MHz                    |
| CB75B-B7B8B20  | 832~862 / 890~915 / 2500~2570 MHz                    | 791~821 / 935~960 / 2620~2690 MHz                    |
| CB75B-B2B4B5   | 824~849 / 1710~1755 / 1850~1910 MHz                  | 869~894 / 2110~2155 / 1930~1990 MHz                  |
| CB75B-B2B5B28  | 703~748 / 824~849 / 1850~1910 MHz                    | 758~803 / 869~894 / 1930~1990 MHz                    |
| CB75B-B2B5B12  | 699~716 / 824~849 / 1850~1910 MHz                    | 729~746 / 869~894 / 1930~1990 MHz                    |
| CB75B-B1B8B12  | 699~716 / 890~915 / 1920~1980 MHz                    | 729~746 / 935~960 / 2110~2170 MHz                    |
| CB75B-B1B3B78  | 1710~1785 / 1920~1980 / 3300~3800 MHz<br>(each 100M) | 2110~2170 / 1805~1880 / 3300~3800 MHz<br>(each 100M) |
| CB75B-B1B8B78  | 890~915 / 1920~1980 / 3300~3800 MHz<br>(each 100M)   | 935~894 / 2110~2170 / 3300~3800 MHz<br>(each 100M)   |
| CB75B-B3BB8B78 | 890~915 / 1710~1785 / 3300~3800 MHz<br>(each 100M)   | 935~894 / 1805~1880 / 3300~3800 MHz<br>(each 100M)   |
| CB75B-B8B20B78 | 832~862 / 890~915 / 3300~3800 MHz (each<br>100M)     | 791~821 / 935~960 / 3300~3800 MHz (each<br>100M)     |
| CB75B-B1B7B78  | 1920~1980 / 2500~2570 / 3300~3800 MHz<br>(each 100M) | 2110~2170 / 2620~2690 / 3300~3800 MHz<br>(each 100M) |

## TECHNICAL SPECIFICATION

| Item                               | Uplink              | Downlink |
|------------------------------------|---------------------|----------|
| Output power                       | 17 dBm              | 27 dBm   |
| Gain                               | 70 dB               | 75 dB    |
| Ripple                             | 6~15 dB             | 6~15 dB  |
| VSWR                               | ≤2                  | ≤2       |
| Maximum input power without damage | -10 dBm             | -10 dBm  |
| EVM                                | Meet 3GPP Standards |          |
| PCDE                               | Meet 3GPP Standards |          |
| ACRR                               | Meet 3GPP Standards |          |

| Item  |                      | Uplink                        | Downlink |
|---|----------------------|-------------------------------|----------|
| Spurious Emission                               | 9KHz~1GHz            | ≤-36 dBm                      | ≤-36 dBm |
|   | 1GHz~12.75GHz        | ≤-30 dBm                      | ≤-30 dBm |
| Gain adjustment range                           |                      | 1~31dB in 1dB step            |          |
| ALC adjustment range                            |                      | ≥ 25 dB                       |          |
| Time delay                                      |                      | ≤1.5 μs                       |          |
| LCD display                                     | Band                 | Show band name                |          |
|   | Gain                 | Show uplink and downlink gain |          |
|   | In Pout              | Display downlink input power  |          |
|   | Out Pout             | Display downlink output power |          |
| RUN indicator                                   | Working properly     | Green always on               |          |
|   | Uplink idle shutdown | Green flashing                |          |
|   | ISO downgrading work | Orange                        |          |
|   | Stop working         | Red                           |          |
| Alarm indicator (AGC alarming)                  | ALC does not active  | —                             | Green    |
|   | Active 5~10 dB       | —                             | Orange   |
|   | Active 15~25 dB      | —                             | Red      |
| Squelch function when there is no user          |                      | It has                        |          |
| Real-time self-excitation cancellation function |                      | It has                        |          |
| Shutdown function                               |                      | It has                        |          |
| Noise figure                                    |                      | ≤8 dB                         |          |
| Power supply                                    |                      | DC: 12 V / 2 A                |          |
| RF connector                                    |                      | N-Female                      |          |
| Protection level                                |                      | IP40                          |          |
| Environment humidity                            |                      | < 90%                         |          |
| Operating Temperature                           |                      | -10°C ~ +55°C                 |          |
| Dimension                                       |                      | 250*200*60mm                  |          |
| Weight  |                      | 1.95kg                        |          |
| Dimension (with package)                        |                      | 370*230*110mm                 |          |
| Weight (with package)                           |                      | 2.5kg                         |          |