

**LFA** is a directional antenna with a unique design to achieve an ultra-wideband of 410 -1300 MHz, a compact and rugged form factor and a reduce wind resistance.

LFA integrate a unique bank of filters along with a low noise amplifier. Filters and gain can be easily setup locally thru a 4 key navigation buttons and a TFT display or remotely with a data connection on the same RF coaxial cable.

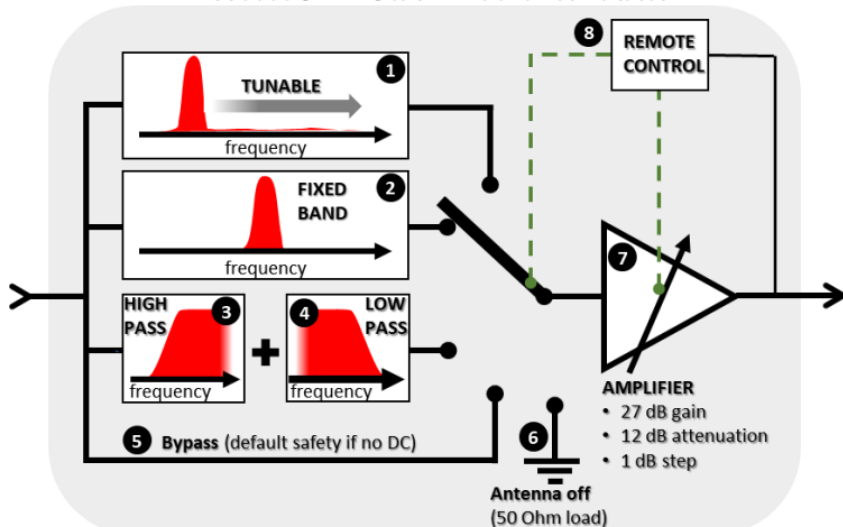
Using the latest Wisycom filter technology, BFA gives a full control of RF zones and allows to build flexible and remote controllable antenna systems.



## Key Features

- ✓ Huge reception band: 410-1300 MHz
- ✓ RF gain from -12 to +27 dBu (1 dB step)
- ✓ Tunable filter for interference control
- ✓ Fixed band saw filter
- ✓ 3 High Pass & 3 Low Pass filters
- ✓ Remote controllable thru coax cable
- ✓ Easy configuration thru a TFT display
- ✓ Antenna off for RF zone disabling
- ✓ Skeletal design for low wind loading
- ✓ Waterproof with gasket sealing

### ULTRA-WIDEBAND BOOSTER WITH SELECTABLE FILTER BANK



- 1 Tunable filter 410-750 (30 MHz wide)
- 2 Fixed band saw filter: 935-940 MHz (Usa) or 1240-1260 (Japan)
- 3 4 High pass filter (410/470/510 MHz) and low pass filter (600/700/810 MHz) CASCADE (9 bandpass combinations)
- 5 Bypass line for full band reception (active mode if no DC power for safety)
- 6 Antenna off for zone control
- 7 Gain control from -12 dB to 27 dB
- 8 Remote control with a data link running on coaxial cable

**SPECIFICATIONS****ANTENNA**

- Gain: 7dBi typical
- 3-dB beam-width: horizontal plane 120° – vertical plane 90°
- Front to back ratio: 10dB @ 870MHz
- Bandwidth: 410÷1300 MHz
- Polarization: vertical

**BOOSTER**

- Control: display menu or remote thru coaxial cable
- Gain: -12÷27 dB typical (1 dB step selection)
- Gain flatness: +/-1 dB
- Powering: +12 Vdc / 100mA
- Full bandwidth Bypass (0.8dB attenuation) and RF OFF function

**FILTER**

- Tunable: 410 ÷ 750 MHz (UHF), 30MHz of BW dB
- Fixed: 935 ÷ 960 MHz (US), 1240 ÷ 1260MHz (JP)
- Selectable band pass filter: HP 410/470/510 MHz, LP 600/700/810 MHz

**MECHANICAL**

- Connectors: BNC-F (LFA-B), N-F (LFA-N)
- Display: TFT – transfective (176 x 176 pixels, RGB)
- Body Material: Epoxy fiberglass with skeletal design
- Finishing: Black matte textured weather resistance coating
- Mounting: 5/4" & 3/8" thread (metal support and mounting base)
- Weight: 550 g
- Size: 335 mm(L) x 276 mm(H) x 61 mm(D)

**VARIANTS****LFA-<Connector>-<Country>****▪ CONNECTOR****B** BNC-F connector**N** N-F connector**▪ COUNTRY FIXED FILTER:****US** 935 ÷ 960 MHz (USA)**JP** 1240 ÷ 1260MHz (Japan)