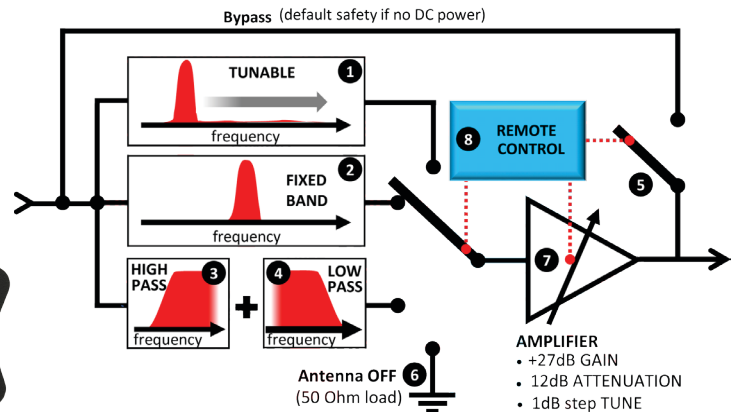


LFA is a directional antenna with a unique design to achieve an ultra-wideband of 410 -1300 MHz, a compact and rugged form factor and a reduce wind resistance.

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 through the RF coaxial cable.

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


**ULTRA WIDEBAND BOOSTER with SELECTABLE FILTERS**


- 1 Tunable filter 430-730 (40 MHz wide)
- 2 Fixed band saw filter: 940-960 MHz (Usa) or 1240-1260 MHz (Japan)
- 3 4 High pass filter and low pass filter 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

**OTHER FEATURES**

- Huge reception band: 410-1300 MHz
- Remote controllable thru coax cable
- RF gain from -12 to +27 dBu (1 dB step)
- Tunable filter for interference control
- Antenna off for RF zone disabling
- Fixed band saw filter
- Skeletal design for low wind loading
- 3 High Pass & 3 Low Pass filters
- Waterproof with gasket sealing
- Easy configuration thru a TFT display and 4 key navigation buttons



## CONFIGURATIONS

### CONNECTOR

**B**
**BNC female**
**N**
**N female**

### FILTER OPTION

**F2**

Tunable filter: 430-730 MHz, 40MHz of BW  
Selectable Filter HP: 470/520/550 MHz + LP: 617/663/698 MHz (EU/USA)  
Fixed Filter: 940 ÷ 960 MHz (USA)

**F3**

Tunable filter 430-730MHz, 40MHz of Bandwidth,  
Selectable Filter HP: 410/470/510 MHz + LP: 600/714/810 MHz (Japan)  
Fixed Filter 1240 ÷ 1260MHz (JP)

**F4**

Tunable filter: 430-730 MHz, 40MHz of BW  
Selectable Filter HP: 470/510/960 MHz + LP: 600/700/1160 MHz (EU/UK)  
Fixed Filter: 940 ÷ 960 MHz (USA)

## ACCESSORIES & RELATED


**Item: POULBN**

Soft Pouch for Directional Antenna


**Item: CNGT11**

RF adapter, N-M/BNC-F

## TECHNICAL 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)
	Bandwidth	from 410MHz up to 1260 MHz (depending on the variants)
	Gain flatness	+/- 1 dB
	Powering	+12 Vdc/65mA (green led, up to about 15dB of gain), +12 Vdc/110mA (blue led, more than about 15dB of gain)
FILTER	Operating voltage range	9.5 ÷ 16 Vdc
	Bypass/OFF	Full bandwidth Bypass (0.8dB attenuation) and RF OFF function
	Tunable	430 ÷ 730 MHz (UHF), 40MHz of BW
	Fixed	940-960 MHz (for USA) or 1240 ÷ 1260MHz (for Japan)
	Selectable band pass filter	HP 410/470/510 MHz, LP 600/700/810 MHz (other see filter option)
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)