

...designed for perfect signals

## Extended L-Band Active Combiners (4-way, 8-way, 16-way)

The LCA Baseline series represents professional L-Band active combiners in a compact 1RU/19" rack mount chassis, especially designed for applications where excellent, stable and accurate signal quality is necessary. The units are available as single units (4:1, 8:1, 16:1) or dual units (2 x 4:1, 2 x 8:1, 2 x 16:1) and are especially designed for applications where stable and accurate signal quality is necessary.

The units support extended L-Band frequency range 850 – 2450MHz ready for KA-Band and HTS applications. Additionally, RF power monitoring, a rear-side 10MHz external reference signal port and 1:1 redundant dual power supply. Front side status LED's indicating and monitoring the health status of the unit. Remote configuration, monitoring and alarming can be done via an RJ45 Ethernet-Interface (WebGUI, SNMP).



### FEATURES & BENEFITS

- ▶ Extended L-Band frequency (850 – 2450MHz)
- ▶ Available as single or dual combiners
- ▶ 50Ohm SMA(f) / BNC(f) or 75Ohm F(f) / BNC(f)
- ▶ Front panel status LED's
- ▶ RF power monitoring
- ▶ 10MHz external reference signal input
- ▶ Remote configuration and monitoring (WebGUI, SNMP)
- ▶ 1:1 redundant dual power supply

### TECHNICAL SPECIFICATIONS

<b>Dimensions:</b>	1RU/19" rack mount
<b>Power Supply:</b>	85 – 230V, 50/60Hz, 1:1 redundant
<b>Power Consumption:</b>	<10W
<b>Frequency Range:</b>	850 – 2450MHz (extended L-Band)
<b>Input/Output Connectors:</b>	50Ohm SMA(f), 50Ohm BNC(f), 75Ohm F(f), 75Ohm BNC(f)
<b>Input RF Power:</b>	+23dBm max.
<b>Input/Output Return Loss:</b>	16dB min., 20dB typ.
<b>Noise Figure:</b>	19dB typ.
<b>Isolation:</b>	20dB min., 23dB typ.
<b>Insertion Loss:</b>	0dB typ., ±1.0dB max.
<b>Frequency Response:</b>	50Ohm Type: ±1.0dB typ. ±1.5dB max, ±0,25dB @ any 36MHz 75Ohm Type: ±1.25dB typ. ±2.0dB max, ±0,3dB @ any 36MHz

<b>P1dB:</b>	+18dBm typ.
<b>IMA3 @ -10dBm:</b>	-60dBc typ.
<b>SFDR:</b>	< - 80dBm
<b>Switchable DC-Supply:</b>	0/13/18VDC, 22kHz tone, 400mA (On Request)
<b>RF Power Monitoring:</b>	-60 to +5dBm ( $\pm 1,5$ dB accuracy), dynamic range
<b>10MHz Reference Port:</b>	50Ohm SMA(f) rear-side
<b>Remote Configuration:</b>	RJ45 Ethernet Interface (WebGUI, SNMP)
<b>Status LED's:</b>	Power supply, Combiner Module(s), Ethernet status
<b>Operating Temperature:</b>	0°C to 50°C
<b>Storage Temperature:</b>	-20° to 75°C
<b>Humidity:</b>	90%, non-condensing
<b>RoHS:</b>	Compliant

## ORDER INFORMATION

### Type with 50Ohm SMA(f)

Module Type	Type No.	Short Description
LCA104-50S	9001012	Active L-Band Combiner, 1 x 4:1
LCA108-50S	9000956	Active L-Band Combiner, 1 x 8:1
LCA116-50S	9000903	Active L-Band Combiner, 1 x 16:1
LCA204-50S	9001155	Active Dual L-Band Combiner, 2 x 4:1
LCA208-50S	on request	Active Dual-Band Combiner, 2 x 8:1
LCA216-50S	on request	Active Dual-Band Combiner, 2 x 16:1

### Type with 75Ohm F(f)

Module Type	Type No.	Short Description
LCA104-75F	on request	Active L-Band Combiner, 1 x 4:1
LCA108-75F	9001152	Active L-Band Combiner, 1 x 8:1
LCA116-75F	9001153	Active L-Band Combiner, 1 x 16:1
LCA204-75F	on request	Active Dual L-Band Combiner, 2 x 4:1
LCA208-75F	9000891	Active Dual-Band Combiner, 2 x 8:1
LCA216-75F	on request	Active Dual-Band Combiner, 2 x 16:1

### Type with 50Ohm BNC(f)

Module Type	Type No.	Short Description
LCA104-50B	9000964	Active L-Band Combiner, 1 x 4:1
LCA108-50B	on request	Active L-Band Combiner, 1 x 8:1
LCA116-50B	9000985	Active L-Band Combiner, 1 x 16:1
LCA204-50B	on request	Active Dual L-Band Combiner, 2 x 4:1
LCA208-50B	on request	Active Dual-Band Combiner, 2 x 8:1
LCA216-50B	on request	Active Dual-Band Combiner, 2 x 16:1

### Type with 75Ohm BNC(f)

Module Type	Type No.	Short Description
LCA104-75B	on request	Active L-Band Combiner, 1 x 4:1
LCA108-75B	on request	Active L-Band Combiner, 1 x 8:1
LCA116-75B	on request	Active L-Band Combiner, 1 x 16:1
LCA204-75B	on request	Active Dual L-Band Combiner, 2 x 4:1
LCA208-75B	on request	Active Dual-Band Combiner, 2 x 8:1
LCA216-75B	on request	Active Dual-Band Combiner, 2 x 16:1