

LCA BaseLine Series

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 support extended L-Band frequency range 850 – 2450MHz ready for KA-Band and HTS applications.

Additionally, the units feature 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
- 10MHz & DC Through (Option 095)
- Remote configuration and monitoring (WebGUI, SNMP)
- 1:1 redundant dual power supply

TECHNICAL SPECIFICATIONS

Dimensions:	1RU/19” rack mount
Power Supply:	85 – 264V, 50/60Hz, 1:1 redundant
Power Consumption:	<10W
Frequency Range:	850 – 2450MHz (extended L-Band)
Input/Output Connectors:	50Ohm SMA(f), 50Ohm BNC(f), 75Ohm F(f), 75Ohm BNC(f)
Input RF Power:	+23dBm max.
Input/Output Return Loss:	16dB min., 20dB typ.
Noise Figure:	19dB typ.
Isolation:	20dB min., 23dB typ.

Insertion Loss:	0dB typ., ±1.0dB max.
Frequency Response:	50Ohm Type: ±1.0dB typ. ±1.5dB max, ±0,25dB @ any 36MHz 75Ohm Type: ±1.25dB typ. ±2.0dB max, ±0,3dB @ any 36MHz
P1dB:	+18dBm typ.
IMA3 @ -10dBm:	-60dBc typ.
SFDR:	< - 80dBm
Switchable DC-Supply:	0/13/18VDC, 22kHz tone, 400mA (On Request)
RF Power Monitoring:	-60 to +5dBm (±1,5dB accuracy), dynamic range
10MHz Reference Port:	50Ohm SMA(f) rear-side
Remote Configuration:	RJ45 Ethernet Interface (WebGUI, SNMP)
Status LED´s:	Power supply, Combiner Module(s), Ethernet status
Operating Temperature:	0°C to 50°C
Storage Temperature:	-20° to 75°C
MTBF:	390khours MIL-HDBK-217F (25°C)
Humidity:	90%, non-condensing
RoHS:	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 L-Band Combiner, 2 x 8:1
LCA216-50S	on request	Active Dual L-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 L-Band Combiner, 2 x 8:1
LCA216-75F	on request	Active Dual L-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 L-Band Combiner, 2 x 8:1
LCA216-50B	on request	Active Dual L-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 L-Band Combiner, 2 x 8:1
LCA216-75B	on request	Active Dual L-Band Combiner, 2 x 16:1

OPTIONS

Type	Type No.	Short Description
Option 095	9001176	10MHz and DC Through, Port #1 to Common Port, for EcoLine & BaseLine Splitters and Combiners
Option10M - 10MHz Internal Source	9001531	10MHz sine Wave, +5dBm, Aging ±500 ppb max. @ 10 years: Phase Noise -90 dBc @ 1 Hz, -120 dBc @ 10 Hz, -142 dBc @ 100 Hz, -155 dBc @ 1 kHz, -160 dBc @ 10 kHz.