



ELCA BaseLine Series

...designed for perfect signals



Extended L-Band Active Combiner with redundant Amplifier

The ELCA Baseline Combiner represents professional active IF combining in a compact 1RU/19" rack mount chassis, especially designed for RF distribution applications where excellent, stable and accurate signal quality and performance is necessary.

The unit is available as 16-way active combiner and operate at the Extended L-Band Frequency Range 850 – 2450MHz.

Additionally, they feature RF power monitoring at all inputs and at its output and come with 1:1 amplifier 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).



Picture without frontside monitoring port but included

FEATURES & BENEFITS

- ▶ Extended L-Band 850 – 2450MHz
- ▶ 16:1 combining
- ▶ 1:1 redundant amplifier
- ▶ 50Ohm SMA(f)
- ▶ Every input port can be individually disabled/enabled

- ▶ RF power monitoring all inputs and combined output
- ▶ Threshold monitoring all ports
- ▶ Front panel status LED's and rf monitoring port -20dB
- ▶ 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
Input/Output Connectors:	50Ohm SMA(f), monitoring port 50Ohm SMA(f) frontside
No. of Inputs:	16
Input Port Control:	Every input port can be individually disabled/enabled
Input RF Power:	Nominal +6dBm, +13dBm max. damage level
Input/Output Return Loss:	14dB min.
Noise Figure:	16dB max.
Isolation:	20dB min., 23dB typ.
Insertion Loss:	0dB typ., ±0.5dB max.
Frequency Response:	±1.0dB typ., ±1.5dB max.
P1dB:	+6dBm typ. at full gain
IMA3 @ -10dBm:	-50dBc typ.
SFDR:	< -80dBm
Gain Adjust:	0 to +5dB (16:1) at Output Combiner, Steps 0,5dB
RF Power Monitoring:	-40 to +10dBm dynamic range all ports, calibrated to LTE signal on request, standard CW calibration
Threshold Monitoring:	-40 to 0dBm adjustable all inputs and common output with alarm
Remote Configuration:	RJ45 Ethernet-Interface (WebGUI, SNMP)
Status LED's:	Power supply, Combiner Module, Ethernet status
Operating Temperature:	0°C to 50°C
Storage Temperature:	-20° to 75°C
Humidity:	90%, non-condensing
RoHS:	Compliant

ORDER INFORMATION

Type with 50Ohm SMA(f)

Module Type	Type No.	Short Description
ELCA116R-50S	9001324	Active Combiner 16:1, 850 – 2450MHz, 1:1 redundant amplifier, adjustable gain 0 to 5dB, Output RF power monitoring, THD function, 50Ohm SMA(f), Status LED, Ethernet Interface (WebGUI, SNMP), 1:1 redundant PSU, frontside monitoring port -20dB SMA(f)