



# 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

|                                  |                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Dimensions:</b>               | 1RU/19" rack mount                                                                                  |
| <b>Power Supply:</b>             | 85 – 264V, 50/60Hz, 1:1 redundant                                                                   |
| <b>Power Consumption:</b>        | <10W                                                                                                |
| <b>Frequency Range:</b>          | 850 – 2450MHz                                                                                       |
| <b>Input/Output Connectors:</b>  | 50Ohm SMA(f), monitoring port 50Ohm SMA(f) frontside                                                |
| <b>No. of Inputs:</b>            | 16                                                                                                  |
| <b>Input Port Control:</b>       | Every input port can be individually disabled/enabled                                               |
| <b>Input RF Power:</b>           | Nominal +6dBm, +13dBm max. damage level                                                             |
| <b>Input/Output Return Loss:</b> | 14dB min.                                                                                           |
| <b>Noise Figure:</b>             | 16dB max.                                                                                           |
| <b>Isolation:</b>                | 20dB min., 23dB typ.                                                                                |
| <b>Insertion Loss:</b>           | 0dB typ., ±0.5dB max.                                                                               |
| <b>Frequency Response:</b>       | ±1.0dB typ., ±1.5dB max.                                                                            |
| <b>P1dB:</b>                     | +6dBm typ. at full gain                                                                             |
| <b>IMA3 @ -10dBm:</b>            | -50dBc typ.                                                                                         |
| <b>SFDR:</b>                     | < -80dBm                                                                                            |
| <b>Gain Adjust:</b>              | 0 to +5dB (16:1) at Output Combiner, Steps 0,5dB                                                    |
| <b>RF Power Monitoring:</b>      | -40 to +10dBm dynamic range all ports, calibrated to LTE signal on request, standard CW calibration |
| <b>Threshold Monitoring:</b>     | -40 to 0dBm adjustable all inputs and common output with alarm                                      |
| <b>Remote Configuration:</b>     | RJ45 Ethernet-Interface (WebGUI, SNMP)                                                              |
| <b>Status LED's:</b>             | Power supply, Combiner Module, 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                                                                                                                                                                                                                                        |
|--------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) |