



SLC2716L

Active 16:1 L-Band Combiner With Integrated Line-Amplifier

GENERAL

The SLC2716L is a 16:1 L-Band combiner with an integrated line-amplifier built into a compact 1RU/19" rack-mount chassis. The unit features 16:1 L-Band combining while the amplifier allows variable gain adjustment so to reach best RF performance within the network. Besides the variable gain adjustment (MGC/AGC) and 16:1 combining the unit also features slope-equalization, 10MHz external reference, RF power monitoring as well as 1:1 redundant power-supply (hot-swappable). The SLC2716L features a flexible and compact RF-distribution solution which is perfectly suited for applications in Teleports, Satellite Earth-Stations, as well as Broadcast- and Broadband facilities wherever accurate RF power, highest stability and availability is necessary. The unit has a front-side LC-Display/keypads for user-friendly local configuration while front-side status LED's indicating power-supply status. Remote control and configuration can be done via its rear-side Ethernet-Interface (WEB-GUI, SNMP). The SLC2716L is available with 50Ohm SMA(f) or 75Ohm F(f) connectors (see order-information).



FEATURES

- ▶ Space saving and compact 1RU/19" design
- ▶ 16:1 L-Band combining & amplifier in one unit
- ▶ Variable gain-adjust -11...+13dB (MGC/AGC), 1dB steps
- ▶ Supports slope-equalization 0...9dB, 1dB steps
- ▶ Front-side monitoring-port (-20dB)
- ▶ Permanent RF-power monitoring (Input/Output) for both amplifier-modules
- ▶ Threshold alarm function and switchable output limiter
- ▶ 10MHz external reference signal, rear-side 50Ohm SMA(f)
- ▶ 1:1 redundant power supply (hot swappable)
- ▶ Local access & configuration via front side LC-Display/keypads
- ▶ Front side status LED's indicating power-supply status
- ▶ Remote configuration via Ethernet-Interface, RS232/485 (WEB-GUI/SNMPv2c)

ORDER INFORMATION

- ▶ **SLC2716L:** 16:1 L-Band combiner with integrated Line Amplifier, 1RU/19", 50Ohm SMA(f)
- ▶ **SLC2716L-75:** 16:1 L-Band combiner with integrated Line Amplifier, 1RU/19", 75Ohm F(f)

TECHNICAL SPECIFICATIONS

- ▶ **Dimensions:** 1RU/19", 260mm deep
- ▶ **Power supply:** 85...230V, 50/60Hz
1:1 redundant (hot-swappable)
- ▶ **Power consumption:** <10W
- ▶ **Frequency range:** 950...2150MHz (L-Band)
- ▶ **Input/Output connectors:** 50Ohm SMA(f) or 75Ohm F(f)
- ▶ **Return-loss:** 16dB min.
- ▶ **Flatness:** ±0.5dB typ., ±1dB max.
- ▶ **Variable Gain adjust:** -11...+13dB (Acc. ±0.25dB)
1dB steps (MGC/AGC)
- ▶ **Slope equalization:** 0...9dB, 1dB steps
- ▶ **Max. RF output power:** +23dBm (@50Ohm)
+21dBm (@75Ohm)
- ▶ **Noise figure:** ≤15dB @ 30dB gain
- ▶ **IMA3 @ +20dBm:** < -50dBc
- ▶ **1dB Compression point:** 23dBm
- ▶ **Output limiter:** adjustable -40dBm...+20dBm
- ▶ **L-Band combining conf.:** 16:1
- ▶ **Input Isolation:** ≥ 25dB (50Ohm)
≥ 20dB (75Ohm)
- ▶ **Monitoring port:** -20dB (front-side)
- ▶ **10MHz reference:** External, rear 50Ohm SMA(f)
*Internal upon request
- ▶ **Access/Control:** LC-Display/keypads,
100Mbit Ethernet-Interface,
RS232/485
(WEB-GUI, SNMPv2c)
- ▶ **Status LED's:** PSU monitoring
- ▶ **Operating temperature:** 0...45°C
- ▶ **Storage temperature:** -10°C...70°C
- ▶ **Humidity:** 90% non-condensing