



# PRELIMINARY

...designed for perfect signals



## LSA BaseLine Splitters

Extended L-Band Splitters Active (4-way, 8-way, 16-way, 32-way)

Made in Germany

### GENERAL

The LSA Baseline series represents high quality and professional active L-Band splitters 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 (1:4, 1:8, 1:16 & 1:32), Dual units (2 x 1:4, 2 x 1:8, 2 x 1:16) or Quad units (4 x 1:4), while the dual and quad units come with 2 or 4 independent operating splitters, each fully isolated from each other.

The units support extended L-Band frequency range 850...2450MHz ready for KA-Band and HTS applications. Additionally they feature switchable LNB-supply (13/18VDC, 22kHz) for powering LNB's, a 10MHz external reference signal port as well as are equipped with 1:1 redundant dual power-supply. Front side status LED's indicating and monitoring the health status of the unit (LNB-power and each power supply). Remote configuration, monitoring and alarming can be done via an RJ45 Ethernet-Interface (WebGUI, SNMP).

The LSA BaseLine active L-Band splitters are a perfect fit for Satellite earth-stations, teleports as well as for broadcast and broadband RF distribution infrastructures and provide superior RF performance at the highest quality level. They are available with 50Ohm SMA(f)/BNC(f) or 75Ohm F(f)/BNC(f) connectors.



### FEATURES & BENEFITS

- > Space saving 1RU/19" rack-mount design
- > Extended L-Band frequency range 850...2.450MHz ready for KA-Band and HTS applications
- > Single splitter variants (1:4, 1:8, 1:16 and 1:32)
- > Dual splitter variants (2 x 1:4, 2 x 1:8 and 2 x 1:16) (2 independent splitters in a 1RU/19" chassis, isolated to each other)
- > Quad splitter variant (4 x 1:4) (4 independent splitters in a 1RU/19" chassis, isolated to each other)
- > Switchable LNB-supply 0/13/18VDC/22kHz (ON/OFF), 500mA
- > 10MHz external reference port, rear-side, 50Ohm SMA(f)
- > Front side monitoring port -20dB
- > Front side status LED's (LNB-supply, PSU, splitter-module and Ethernet status)
- > Remote control via RJ45 Ethernet-Interface (WebGUI, SNMP), control/select of LNB-supply, LNB current monitoring & status alarming (Unit/PSU's/LNB-supply)
- > Excellent quality and superior RF performance
- > 1:1 dual redundant power supply

### TECHNICAL SPECIFICATIONS

- > **Dimensions:** 1RU/19" rack-mount
- > **Power supply:** 85...230V, 50/60Hz / 1:1 redundant
- > **Power consumption:** <10W (without LNB-supply) <20W (with max. LNB-supply voltage)
- > **Splitter variants:** 1:4, 1:8, 1:16 & 1:32  
Dual 1:4, 1:8, 1:16 / Quad 1:4
- > **Frequency range:** 850...2450MHz (Extended L-Band)
- > **Input/Output connectors:** 50Ohm SMA(f) or BNC(f)  
75Ohm F(f) or BNC(f)
- > **Input RF power**  
@ 1:4, 1:8, 1:16: +23dBm max.  
@ 1:32: +26dBm max.
- > **Input Return loss:** ≥ 20dB typ., ≥ 16dB min.
- > **Output Return loss:** ≥ 21dB typ., ≥ 16dB min.

### TECHNICAL SPECIFICATIONS

- > **Noise figure**  
@ 1:4, 1:8, 1:16 (50Ohm): 3dB typ.  
@ 1:4, 1:8, 1:16 (75Ohm): 4dB typ.  
@ 1:32 (50Ohm): 7dB typ.  
@ 1:32 (75Ohm): 8dB typ.
- > **Isolation:** ≥ 25dB
- > **Insertion loss:** 0dB typ., ± 0,25dB max.
- > **Frequency response (Flatness)**  
@ 1:4, 1:8, 1:16 (50Ohm): ± 0,50dB (± 0,20dB @ any 36MHz)  
@ 1:4, 1:8, 1:16 (75Ohm): ± 0,75dB (± 0,20dB @ any 36MHz)  
@ 1:32 (50Ohm): ± 0,75dB (± 0,20dB @ any 36MHz)  
@ 1:32 (75Ohm): ± 1,00dB (± 0,20dB @ any 36MHz)
- > **Group delay:** 2ns. max (@ full band)  
1ns. max (@ any 36MHz)
- > **1dB Compression**  
@ 1:4: +10dBm  
@ 1:8: +7dBm  
@ 1:16 & 1:32: +3dBm
- > **OIP3 / OIP2:** +24dBm / +44dBm
- > **IMA3 @ -10dBm:** < -60dBc
- > **In band spurious:** < -80dBm
- > **Switchable LNB-supply:** 0/13/18VDC, 22kHz, 500mA, current monitoring protection
- > **10MHz reference port:** 50Ohm SMA(f), rear side
- > **Monitoring port:** -20dB, 50Ohm SMA(f), front side
- > **Status LED's:** LNB-supply, PSU/Module  
Ethernet status monitoring
- > **Remote configuration monitoring & alarming:** RJ45 Ethernet Interface (WebGUI, SNMP)
- > **Operating temperature:** 0...50°C
- > **Storage temperature:** -20°C...75°C
- > **Humidity:** 90% non-condensing
- > **RoHS:** Compliant

>> please continue to next page for order information



## LSA BaseLine Splitters

Extended L-Band Splitters Active (4-way, 8-way, 16-way, 32-way)


**Made in Germany**

### ORDER INFORMATION

#### 50Ohm SMA(f) connectors

- **LSA104-50S:** Active L-Band Splitter, 1 x 1:4, LNB-supply, 10MHz ext. reference port, 50Ohm SMA(f), 1RU/19" rack mount
- **LSA108-50S:** Active L-Band Splitter, 1 x 1:8, LNB-supply, 10MHz ext. reference port, 50Ohm SMA(f), 1RU/19" rack mount
- **LSA116-50S:** Active L-Band Splitter, 1 x 1:16, LNB-supply, 10MHz ext. reference port, 50Ohm SMA(f), 1RU/19" rack mount
- **LSA132-50S:** Active L-Band Splitter, 1 x 1:32, LNB-supply, 10MHz ext. reference port, 50Ohm SMA(f), 1RU/19" rack mount
- **LSA204-50S:** Active **Dual** L-Band Splitter, 2 x 1:4, LNB-supply, 10MHz ext. reference port, 50Ohm SMA(f), 1RU/19" rack mount
- **LSA208-50S:** Active **Dual** L-Band Splitter, 2 x 1:8, LNB-supply, 10MHz ext. reference port, 50Ohm SMA(f), 1RU/19" rack mount
- **LSA216-50S:** Active **Dual** L-Band Splitter, 2 x 1:16, LNB-supply, 10MHz ext. reference port, 50Ohm SMA(f), 1RU/19" rack mount
- **LSA404-50S:** Active **Quad** L-Band Splitter, 4 x 1:4, LNB-supply, 10MHz ext. reference port, 50Ohm SMA(f), 1RU/19" rack mount

#### 50Ohm BNC(f) connectors

- **LSA104-50B:** Active L-Band Splitter, 1 x 1:4, LNB-supply, 10MHz ext. reference port, 50Ohm BNC(f), 1RU/19" rack mount
- **LSA108-50B:** Active L-Band Splitter, 1 x 1:8, LNB-supply, 10MHz ext. reference port, 50Ohm BNC(f), 1RU/19" rack mount
- **LSA116-50B:** Active L-Band Splitter, 1 x 1:16, LNB-supply, 10MHz ext. reference port, 50Ohm BNC(f), 1RU/19" rack mount
- **LSA132-50B:** Active L-Band Splitter, 1 x 1:32, LNB-supply, 10MHz ext. reference port, 50Ohm BNC(f), 1RU/19" rack mount
- **LSA204-50B:** Active **Dual** L-Band Splitter, 2 x 1:4, LNB-supply, 10MHz ext. reference port, 50Ohm BNC(f), 1RU/19" rack mount
- **LSA208-50B:** Active **Dual** L-Band Splitter, 2 x 1:8, LNB-supply, 10MHz ext. reference port, 50Ohm BNC(f), 1RU/19" rack mount
- **LSA216-50B:** Active **Dual** L-Band Splitter, 2 x 1:16, LNB-supply, 10MHz ext. reference port, 50Ohm BNC(f), 1RU/19" rack mount
- **LSA404-50B:** Active **Quad** L-Band Splitter, 4 x 1:4, LNB-supply, 10MHz ext. reference port, 50Ohm BNC(f), 1RU/19" rack mount

#### 75Ohm F(f) connectors

- **LSA104-75F:** Active L-Band Splitter, 1 x 1:4, LNB-supply, 10MHz ext. reference port, 75Ohm F(f), 1RU/19" rack mount
- **LSA108-75F:** Active L-Band Splitter, 1 x 1:8, LNB-supply, 10MHz ext. reference port, 75Ohm F(f), 1RU/19" rack mount
- **LSA116-75F:** Active L-Band Splitter, 1 x 1:16, LNB-supply, 10MHz ext. reference port, 75Ohm F(f), 1RU/19" rack mount
- **LSA132-75F:** Active L-Band Splitter, 1 x 1:32, LNB-supply, 10MHz ext. reference port, 75Ohm F(f), 1RU/19" rack mount
- **LSA204-75F:** Active **Dual** L-Band Splitter, 2 x 1:4, LNB-supply, 10MHz ext. reference port, 75Ohm F(f), 1RU/19" rack mount
- **LSA208-75F:** Active **Dual** L-Band Splitter, 2 x 1:8, LNB-supply, 10MHz ext. reference port, 75Ohm F(f), 1RU/19" rack mount
- **LSA216-75F:** Active **Dual** L-Band Splitter, 2 x 1:16, LNB-supply, 10MHz ext. reference port, 75Ohm F(f), 1RU/19" rack mount
- **LSA404-75F:** Active **Quad** L-Band Splitter, 4 x 1:4, LNB-supply, 10MHz ext. reference port, 75Ohm F(f), 1RU/19" rack mount

#### 75Ohm BNC(f) connectors

- **LSA104-75B:** Active L-Band Splitter, 1 x 1:4, LNB-supply, 10MHz ext. reference port, 75Ohm BNC(f), 1RU/19" rack mount
- **LSA108-75B:** Active L-Band Splitter, 1 x 1:8, LNB-supply, 10MHz ext. reference port, 75Ohm BNC(f), 1RU/19" rack mount
- **LSA116-75B:** Active L-Band Splitter, 1 x 1:16, LNB-supply, 10MHz ext. reference port, 75Ohm BNC(f), 1RU/19" rack mount
- **LSA132-75B:** Active L-Band Splitter, 1 x 1:32, LNB-supply, 10MHz ext. reference port, 75Ohm BNC(f), 1RU/19" rack mount
- **LSA204-75B:** Active **Dual** L-Band Splitter, 2 x 1:4, LNB-supply, 10MHz ext. reference port, 75Ohm BNC(f), 1RU/19" rack mount
- **LSA208-75B:** Active **Dual** L-Band Splitter, 2 x 1:8, LNB-supply, 10MHz ext. reference port, 75Ohm BNC(f), 1RU/19" rack mount
- **LSA216-75B:** Active **Dual** L-Band Splitter, 2 x 1:16, LNB-supply, 10MHz ext. reference port, 75Ohm BNC(f), 1RU/19" rack mount
- **LSA404-75B:** Active **Quad** L-Band Splitter, 4 x 1:4, LNB-supply, 10MHz ext. reference port, 75Ohm BNC(f), 1RU/19" rack mount