

MAILA® SPA

POWER AMPLIFIER FOR UP TO EIGHT SATELLITES



FEATURES

- Amplifier module for up to eight MAILA® SAT satellites
- Integrated 2-channel DSP power amplifier with 1.25 kW RMS power output
- Flexible use in ground stack or flown setups
- Truss mounting with optional EasyMount+® adapter
- SmartLink+® enables cable-free connection of MAILA® SPA and satellites (powering up to eight MAILA® SAT)
- LogoLink®: Wireless antennas integrated in the LD logo for wireless app connection
- DSP configuration directly on the device or via the free MAILA® app (iPadOS)

DESCRIPTION

MAILA® SPA is the only MAILA® module without integrated loudspeakers – and yet an integral part of the MAILA® concept. Its versatility can already be guessed at by looking at the range of MAILA® sets: The MAILA® SPA amplifier module is used in the smallest MAILA®-S ground stack set as well as in the large MAILA® XL version with flown arrays.

MAILA® SPA is an amplifier module in elegant unibody aluminium design with integrated 1.25 kW power amplifier with SysCore® DSP for controlling up to eight MAILA® SAT satellites. Via the SmartLink+® system, the satellites can be simply slid onto the SPA and wirelessly supplied with a signal. In addition, SmartLink+® enables automatic detection of the installed satellites for automatic or manual DSP processing.

As with the MAILA® COL column module, MAILA® SPA allows users to create ground stack configurations with a speaker pole (included in the MAILA® S set) as well as flown setups with the EasyMount+® mounting adapter.

With LogoLink®, LD Systems has added another innovation to MAILA®. Via the free MAILA® app (iPadOS), every MAILA® system can be quickly, easily and precisely adjusted and wirelessly supplied with software updates. Once connected, the app automatically recognises the existing MAILA® components and enables the system to be set up quickly and easily – including calculation of the SAT angles – in the run-up to an event. The highlight: the wireless antennas are invisibly integrated into the LD logo of the MAILA® SPA.

SPECIFICATIONS

Product number	LDMAILASPA
General	
Product type	MAILA Satellite Amplifier
Type	Powered
Amplifier	Class D
System Power (RMS)	1250 W
Protection features	Limiter, over-current, thermal overload
Input impedance	20000 Ohm(s)
Controls	Rotary/push encoder
Indicators	LC display, LED indicator, Limit, Power, Protect, Signal
Line inputs	1



Product number	LDMAILASPA
Line input connectors	XLR
Line outputs	1
Line output connectors	XLR
Speaker output connections	SmartLink+®
Wireless Connectivity	LogoLink® for App Control
Power supply	SMPS
Operating voltage	100 V AC – 240 V AC, 50 – 60 Hz
Power consumption (max.)	400 W
Operating Temperature	0 – 40 °C
Relative Humidity	< 80 %, not condensing
Housing material	Die-cast aluminium unibody
Cabinet surface	Powder-coated
Mounting	2 × M10, 25mm MAILA Flange, EasyMount+®
Handles	1
Width	205 mm
Height	282 mm
Depth	226 mm
Weight	7.45 kg
DSP characteristics	
Bit depth AD/DA converter	24 Bit
Sampling frequency	48 kHz

ARCHITECT & ENGINEER'S SPECIFICATIONS

The power amplifier module shall be designed to integrate seamlessly with compatible components, including satellite speakers, subwoofers, and column modules.

MAILA® SPA shall be housed in a unibody aluminium enclosure. The module shall include an integrated two-channel Class D power amplifier with a total power output of 1.25 kW. It shall also be equipped with a DSP for advanced signal processing, including IR and FIR-filtering. This amplifier shall be capable of driving up to eight compatible satellite speakers.

The power amplifier module shall feature cable-free connection between the amplifier module and satellite speakers. The link shall deliver the low-mid as well as the tweeter audio-signals separately to the connected satellites and shall support automatic detection of installed satellites for seamless automatic or manual DSP configuration.

The amplifier module shall support various configurations, including ground stack setups using an included speaker pole, and flown array configurations.

The amplifier module shall feature integrated DSP with wireless control capability with an app. The app shall allow for quick, precise setup and real-time adjustments to the sound system, including automatic detection of all connected, compatible components and the calculation of optimal satellite angles for flown configurations.

The amplifier shall be 282 × 205 × 226 mm (HWD) and weigh 7.45 kg.

Power input shall be 100–240 V AC with a maximum consumption of 400 W. Power connection shall be via a PowerCON TRUE1 connector.

Audio input shall be via a lockable female 3-pin XLR with audio output on a male 3-pin XLR.

The unit shall be the LD Systems MAILA® SPA, or an approved equivalent. The MAILA® SPA unit can be combined with other MAILA® modules to build a complete, customizable modular intelligent line array system.

TECHNICAL DRAWING

Scale 1: 5

