



- Dual channel amplifier with DSP for fixed installations
- Controllable with K&F Remote Software and web interface
- High performance, flexible and operational reliability

The TOPAS is a network-capable, dual-channel DSP amplifier for fixed installations. The DSP-Amplifier was specially designed for optimal operation with Kling & Freitag loudspeakers. It is also possible for use with other speaker systems.

Via Ethernet, the TOPAS can be highly variably switched on and off, controlled and monitored. The four General Purpose Inputs (GPIs) allow you to adjust volume (digital VCA), switch on/off the amplifier mute the channels and switch the inputs of the audio signal.

In future it will be possible to assign different events, like switch-on-delay for further amplifiers (Power-Sequencing) or status of the amplifier, over the web interface. There are four General Purpose Outputs (Open-Collector-Circuit) available.

Further features include the integrated web server for concise configuration, easy location of all devices in the network using AutoIP/mDNS, and the configurable access control with user/password. The TOPAS can be operated remotely, no matter which operating system is used. Because of the redundant firmware, updates are save and easy.

The standby power consumption is limited to 4.5 watts. The amplifier is ready to operate within a few seconds after power on. The activation can be set via a signal over GPI, ethernet or by pressing the front button.

The TOPAS allows you to monitor the internal protection circuits (Clipping, DC, short circuit, temperature, voltage) via the web interface or soon, over a remote application. Permanent monitoring of the processor via watchdog and load monitoring of the connected speakers in the future is guaranteed. All events can be monitored via web interface or GPIO.

The functionality, performance capability, and expandability of the TOPAS ensure you a high planning and investment reliability.

Amplifier

Output Power (IEC: 1 kHz, 1% THD, both channels)	2 x 1100 W / 2 Ω 2 x 1000 W / 4 Ω 2 x 500 W / 8 Ω
Bridge-Mode	1 x 2050 W / 4 Ω 1 x 2000 W / 8 Ω
THD	0,02 % @ 2/3 nominal output @ 8 Ω
Frequency Response	20 Hz - 20 kHz (-0,3dB)
Gain	21 dB - 39 dB
SNR (signal noise rejection)	> 102 dB
CMR (common mode rejection)	> 75 dB
Mains Connector	powerCon®
Mains Voltage	230 V or 115 V with softstart function
Rated Power	7A
Ventilation	3 temperature-controlled quality fans
Optional	AES input with buffered link output

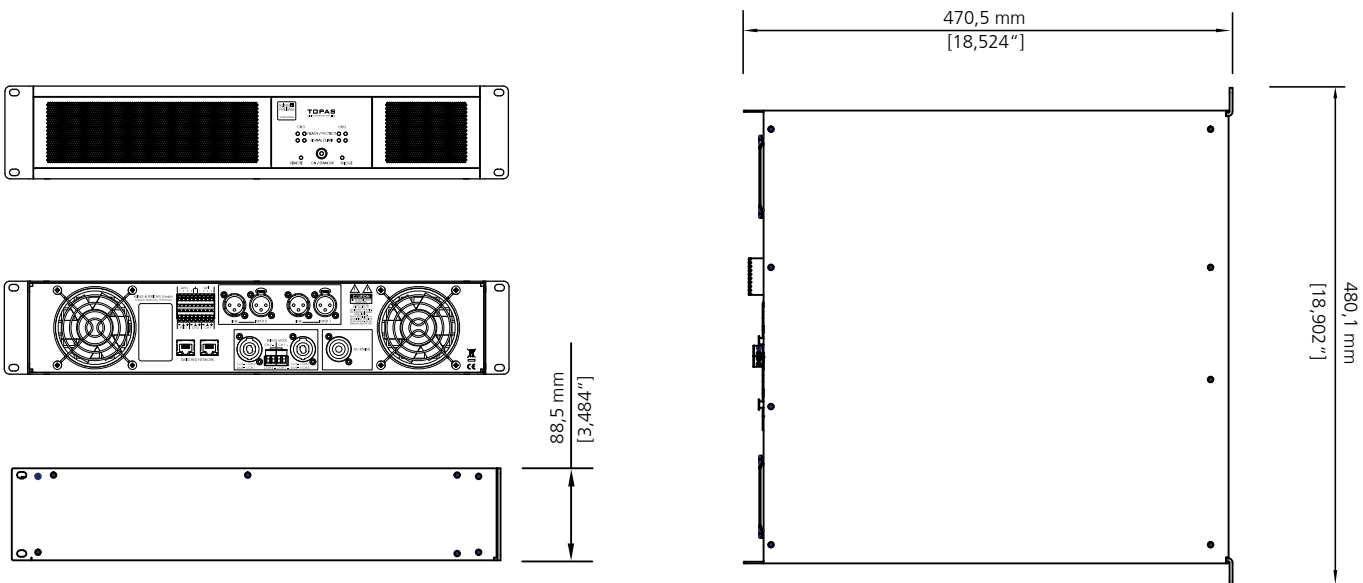
Processing

Digital Signal Processing	24 bit / 96 kHz (AD- and DA-Converter) 32 bit / 96 kHz (DSP, 96 kHz sample rate, 32 bit)
Latency (analogue in / analogue out)	1,3 ms
Audio Inputs Audio Outputs	2 symmetrical inputs on XLR and Phoenix, 2 Speakon NL4, Phoenix 2 symmetrical link-outputs (XLR), Input impedance: 20 kΩ (symmetrical)
Nominal Input Level	18 dBu @ 21 dB 12 dBu @ 27 dB 6 dBu @ 33 dB 0 dBu @ 39 dB
Aux-Input (PRIO)	1 symmetrical input on Phoenix with switchable priority
GPI	4 freely assignable inputs with analogue voltage levels of 0 - 10 V)
GPO	4 freely assignable outputs open-collector circuit
Ethernet Ports	3 RJ45 for 10/100 Base
Standby	Power consumption in standby mode: 4.5 W (using remote monitoring and network switch activated at 230 V), switching from standby to operation mode: 3,5 seconds

Dimensions and Weight

Dimensions (W x H x D)	483 x 88 x 455 mm
Weight	23,3 kg
Approvals	CE, EMC

Web Interface



Further information and data like specifications, manuals, technical drawings as DWG, DXF and PDF files as well as data files for acoustic simulations with Ease and Ulysses are available on our web site www.kling-freitag.de

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