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specifications:

LogiBit 1200 teleloop amplifier

LogiBit 1260 teleloop and loudspeaker amplifier description

The LogiBit amplifier is available in two models. The LogiBit 1200 is a teleloop amplifier and the LogiBit 1260 is a combined teleloop and loudspeaker amplifier.

application

The LogiBit amplifier can be used in many different environments, e.g., in churches, residential homes for the elderly, auditoriums, conference centers, and theatres.

key features

Bass and treble adjustment for LA (teleloop), 2 x loudspeaker outputs (2 x 30 W or bridged 1 x 50 W), possibility of building in 2 x 100 V output transformers for PA, possibility of building in 3 electronically balanced XLR microphone/line inputs or 2 TOA WTU 4800 diversity receivers (800 MHz), +15 V phantom power, selectable for each microphone input.

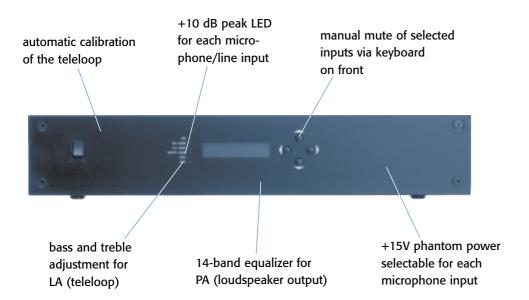
coverage

Up to 1200 m^2 .

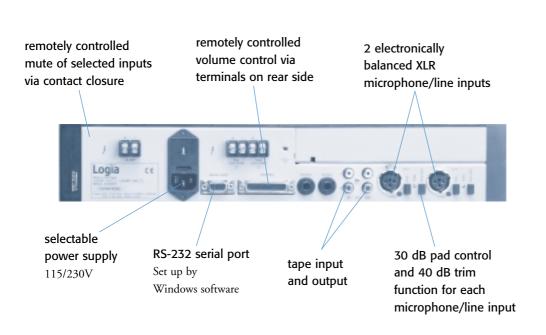




LogiBit amplifier (front)



LogiBit amplifier (back)



LogiBit specifications

bandwidth	LA (teleloop): 100 Hz - 5 kHz (+/- 3 dB) PA (loudspeaker): 20 Hz - 20 kHz (+/- 3 dB)		
distortion	LA (teleloop): <1,0% PA (loudspeaker): < 0,1%		
cross talk	< 60 dB		
signal-to-noise ratio	> 64 dB		
AGC: longtime averaging	Attack time: 1-2 sek. Release time: 10-15 sek. Max amplification: 12 dB Max attenuation: 20 dB		
AGC: limiter	Attack time: 1,5 ms (typ.) Release time: 120 ms (typ.) Attack level: +12 dB		
sensitivity	Microphone input: 1,8 k/-64 dBu (0,5 mV) Phantom power: 15 V Line input: 2,5 k Ω /-34 dBu (15 mV) Patch input: > 7 k Ω /-10 dBu (250 mV) Tape input: 47 k Ω /-10 dBu (150 mV)		
tone control	LA (teleloop): Bass: +/- 6 dB ved 100 Hz Treble: +/- 6 dB ved 5 kHz PA (loudspeaker): 14-band equalizer: +/- 12 dB, 25 Hz-10 kHz		
output level	Patch output: 100Ω/-78 dBu → -10 dBu (1 uV → 250 mV) Tape output: 600Ω/ -14 dBu (150 mV) PA output: 2 x 30 W or bridged 1 x 50 W (8Ω/100 V) LA output: 4 A RMS, continuous 16 A peak (125 ms) 65 V RMS		

power consumption	Basis model: Medium output: 140 W Maximum output: 330 W With PA module: Medium output: 190 W Maximum output: 450 W		
frequency stability	0-100 m²: 0,75° /14 AWG, single turn 100-150 m²: 1,5° /12 AWG, single turn 150-600 m²: 2,5° /10 AWG, single turn 600-1000 m²: 4 ° /11 AWG, single turn 1000-1200 m²: 6 ° /9 AWG, single turn The impedance of the loop wire should be minimum 0.5 Ω		
coverage	Up to 1200 m² (according to the IEC 118-4 standard)		
dimensions	Height: Without 19in fittings: 82 mm/3.23in		
	With 19in fittings: 88,9 mm/3.5in (2U)		
	Width:		
	Without 19in fittings: 430 mm/17in		
	With 19in fittings: 483 mm/19in Depth: 270 mm/10.7in		
weight	Basis model: 9.5 kg 2 x 100 V transformers: 1.15 kg 3 x balanced XLR input module: 0.25 kg 2 x WTU module: 0.50 kg		
color	Black		

LogiBit options

Optional PA module activating in LogiBit 1200 and optional built into in LogiBit 1260. In addition to that there is an optional wireless module or a microphone-/line module available for both LogiBit 1200 and LogiBit 1260.

activating PA module in LogiBit 1200

- \bullet 2 x 30 W or bridged 1 x 50 W (8 Ω /100V)
- 14-band equalizer
- 2 patch connectors

built into a LogiBit 1260

• 2 x 100 V output transformers

mounting of wireless module

• 2 x TOA WTU 4800 diversity receivers (800 MHz)

microphone-/line module



TOA WTU receiver kit



mounting of microphone/line module

- 3 electronically balanced XLR microphone/line inputs. Individually selectable
- 30 dB pad control and 40 dB trim function for each microphone/line input
- +10 dB peak LED for each microphone/line inputs
- +15 V phantom power, selectable for each microphone input

LogiBit features

new unique amplifier principal

LogiBit is a digital amplifier based on a pulse width modulated principle, which is one of the amplifier's completely unique qualities. LogiBit sets new standards for teleloop amplifiers.

greater capacity and greater area coverage

LogiBit sends a much stronger signal than other teleloop amplifiers. Therefore, LogiBit can cover a much bigger area – up to 1200 m².

fewer problems with loss of signal and electric interference

Loss of signal caused by building materials (e.g., steel reinforcing) and background noise caused by electrical installations (e.g., light dimmers) result in a considerably weaker signal on the teleloop, creating problems for users. LogiBit can, to a large extent, compensate for loss of signal and electrical interference because it is possible to increase the signal on the teleloop.

secure for the future

LogiBit comes standard as a teleloop amplifier, but the same unit can easily be used as a combined teleloop and loudspeaker amplifier. The end result is a flexible amplifier that can be used for many years.

easy to use

LogiBit is easy to install. All adjustments are made using Windows software or by using the four easy-touch keys on the front of the unit. The text in the display guides the installer through the menu. On the back of the amplifier there are also a number of user-friendly adjustment parameters and tuning possibilities. It is also very easy for the end user to operate.

natural sound and good speech reproduction

Since LogiBit adapts automatically to the size of the teleloop it is always adjusted perfectly. LogiBit is also equipped with dual AGC functions – one ensures that sudden loud noises are eliminated, while the other function ensures that the user hears dynamic, equalized sound.

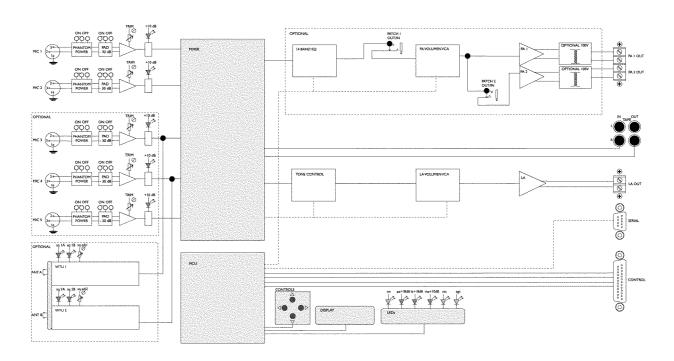
longer lifetime

LogiBit generates much less heat than other similar amplifiers, resulting in a longer lifetime for it and all its components.

flexible

As shown in the many connection possibilities, LogiBit is extremely flexible. Individual needs can, to a greater degree, be fulfilled by using LogiBit than by using any other amplifier.

LogiBit block diagram



accessories



Module with 3 electronically balanced XLR microphone/line inputs. Individually selectable



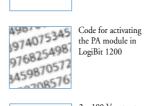
Antennas for TOA WTU receiver kit



Wall mounting bracket



TOA WTU receiver kit





19 in rack mounting bracket



TOA WTU receiver module (800 MHz)



 $2 \times 100 \text{ V}$ output transformers



Loop design programme

Your local dealer:		

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