CENTRUM SOUND

LogiBit Teleloop & Sound Reinforcement Amplifier

LogiBit 1200 Large Area Teleloop Amplifier (Induction loop).

Designed for assistive listening applications in large auditoriums, the LogiBit 1200 handles loop sizes up to 10,000 sq. ft. The unique state of the art pulse width modulation technology employed in the LogiBit teleloop amplifier affords unequaled performance second to none. With the single turn loop concept and the amplifier's low profile design, it inconspicuously installs in any type environment. The tamper proof control panel and a single on/off switch make it simple to operate.

The LogiBit amplifier drives a single turn loop (a stranded hookup wire) that runs along the entire perimeter of the room. When an audio source such as the output from a PA system is applied to the loop amplifier's input, the sound is transmitted via induction and received wireless directly by the T-coil (Tele-coil) in the user's hearing aid without any attachments or hook-up. Teleloop receivers are available for hearing impaired people who do not have hearing aids, or, whose hearing aids do not have T-coils. The system can also be used with conventional or wireless microphones in facilities that are not equipped with a PA system.

Features:

- Teleloop coverage up to 10,000 sq. ft.
- Automatic loop equalization at power up.
- Two balanced XLR Mic/ Line inputs.
- Pad and Trim control for each Mic/Line input.
- 10 dB overload indicators in front and back panel.
- Phantom power switch each input.
- Tape In/Out with stereo RCA connectors.
- Base and Treble controls.
- AGC (Automatic Gain Control).
- Simple programing via touch buttons and LCD display, or, via serial cable to PC based control center.
- LogiBit 1200 is software upgradable to LogiBit 1260 sound reinforcement amplifier without the need for additional hardware.
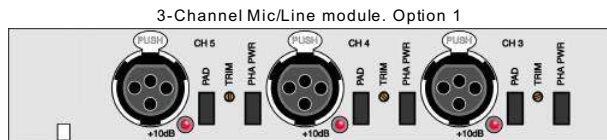
Options:

- 19" rack mount face plate (two spaces).
- Three-channel Mic/Line module (option 1).
- Receiver adaptor for two TOA WTU UHF wireless receiver modules (option 2).
- Choice of TOA 16 or 64 channel UHF diversity tuner modules and Passport transmitters.

Technical Data LogiBit 1200 (and1260)

Coverage area (single turn loop) . . . . Max. 10,000 sq.ft.
Loop wire: 500 - 1,500 sq. ft. . . . . 16 AWG
           1,500 - 6,000 sq.ft. . . . . 14 AWG
           6,000 - 10,000 sq.ft. . . . . 12 AWG
Frequency response . . . . 100 Hz - 5 kHz
Distortion . . . . < 1.0 %
Sensitivity: Microphone level . . . . 1.8 kohm/-64 dBu (0.5 mV)
          Line level . . . . 2.5 kohm/-34 dBu (15 mV)
          Tape input . . . . 47 kohm/-10 dBu (150 mV)
Tape output . . . . 100 ohm/-14 dBu (150 mV)
Signal to noise ratio . . . . > 64 dB
Cross talk. . . . . <60 dB
AGC Long time averaging:
          Attack time . . . . 1-2 sec
          Release time . . . . 10-15 sec
          Max. amplification . . . . 12 dB
          Min. attenuation . . . . 20 dB
Limiter: Attack time . . . . 1.5 ms (typical)
          Release time . . . . 120 ms (typical
          Attack level . . . . +12 dB
Power consumption:
          Medium output . . . . 190 W
          Maximum output . . . . 450 W
Dimensions (H x W x D) . . . . 3.25" x 17" x 10.75"
          with rack face plate . . . . 3.5" x 19" x10.75"
Weight . . . . 21 lb
Color . . . . Black

3-Channel Mic/Line module. Option 1

Receiver adaptor for 2 TOA WTU tuners. Option 2

LogiBit 1200/1260 rear panel without Option 1 or 2 installed

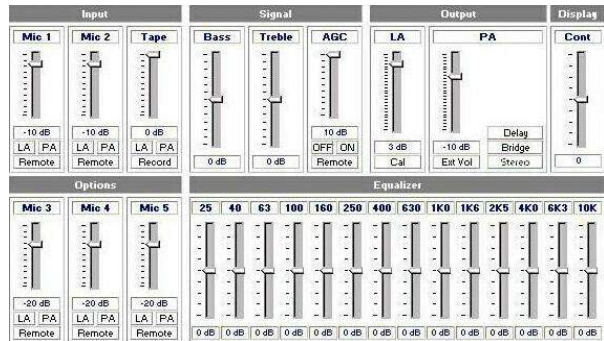TOA WTU diversity tuner modules & Passport transmitters

LogiBit 1260 Sound Reinforcement Amplifier.

The LogiBit 1260 sound reinforcement amplifier not only includes all the features of the LogiBit 1200 amplifier but also incorporates two loudspeaker amplifiers, two patch connectors and a 14-band equalizer. Patch 1 can be used for external signal processing, i.e. adding a 31-band equalizer, while Patch 2 is designed for electronic delay of the second loudspeaker amplifier. The two amplifiers can also be bridged for driving a single loudspeaker. Line transformers (100 Volt system) are also available (option 3).

LogiBit programming features are shown on the screen display at right with Option1, 3-Channel Mic/Line input module, installed. The loudspeaker volume can be controlled with an external volume control via a remote control connector. Moreover, Mic/Line inputs may be switched ON and OFF from remote locations. The TAO WTU module(s) can additionally be set to be ON or OFF at start up. Once programmed, the only user function accessible through the front panel is Tape Play/Record.
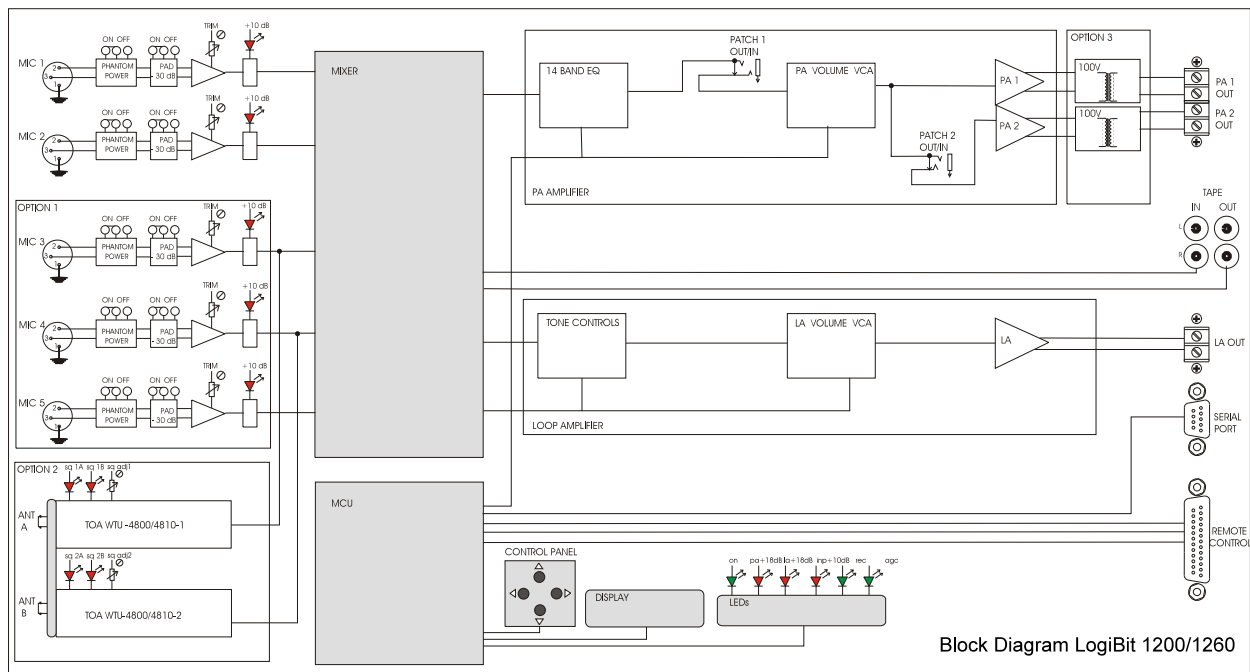
Menu driven program feature via touch buttons and LCD display , or, choose programming with PC via serial cable

Technical Data LogiBit 1260 PA Section

Frequency response . . . . 20 Hz - 20 kHz
Rated output @ 1 kHz - 8 ohm . . . . 2 x 30 W
　　　　　　Bridged . . . . 50 W
Distortion . . . . < 0.1 %
Equalizer, 14 bands . . . . ± 12 dB
Patch input . . . . > 7 kohm /-10 dBu (250 mV)
Patch output . . . . 100 ohm /-78 ~ -14 dBu (1µV-150 mV)
Weight with 100 volt transformers   . . . . 24.5 lb

Block Diagram LogiBit 1200/1260