

# GT1524

## GT1524 Single Channel Echo Canceller

**ClearOne.**

A single channel echo canceller featuring ClearOne's professional audio technology. The GT1524 includes a built-in telephone interface and power amplifier to add audio conferencing to existing sound reinforcement and video conference applications.



### THE CLEAR CHOICE FOR PROFESSIONAL AUDIO CONFERRING

#### APPLICATIONS

Add audio conferencing to video conferencing applications

Add audio conferencing to existing sound reinforcement applications

#### ADVANTAGES

##### Superior Audio Performance

- + Single Echo Cancellation channel
- + Simultaneous two-wire/four-wire capability brings audio conferencing functionality to video conferencing
- + Full-duplex sound enables participants to speak and listen at the same time without cutting in and out
- + One mic/line input, two lines in, two lines out
- + 20 Hz – 20 kHz bandwidth for full-range audio response
- + 8 kHz sampling rate allows continual adaptation to telephone line conditions
- + Audible ring indication sounds through speaker or line output

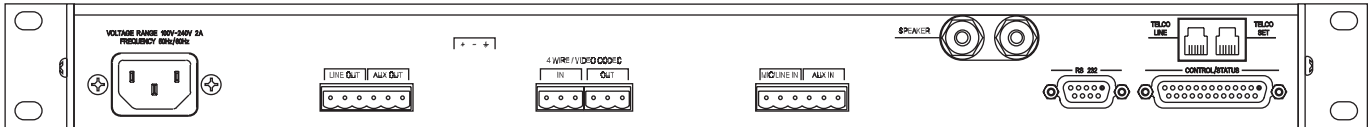
##### System Control

- + Control and program GT1524 via RS-232 connection with ClearOne IR Remote or 3rd-party control systems such as AMX and Crestron, or via front panel buttons and display
- + Integrated touch-tone dialing

##### Conferencing Capability

- + Built-in telephone interface and power amplifier
- + Connect directly to video codec to enhance audio performance

> GT1524 BACK PANEL



> SPECIFICATIONS



**Audio Performance Conditions**

Unless otherwise specified, all measurements are performed with a 22 Hz to 22 kHz BW limit (no weighting).  
 Frequency Response: 20 Hz to 15 kHz ±2 dB  
 Noise (EIN): -125 dBu, 15 kHz BW, max gain, Rs=150 Ω  
 THD+N: <0.1%  
 SNR: 65 dB re 0 dBu  
 Dynamic Range: 85 dB

**Telco Audio Performance**

Frequency Response: 250 Hz to 3.3 kHz ±2 dB (AGC disabled)  
 SNR: >60 dB re -15 dBm on/off the telephone line  
 THD+N: <0.2%, 250 Hz to 3.3 kHz (AGC disabled)  
 Pre-emphasis: +4 dB @ 2 kHz  
 TEC tail time: 31 ms  
 TEC null: 55 dB nominal

**Telco Line**

RJ-11 connector  
 POTS (plain old telephone service) line or analog extension from PBX

**Telco Set**

RJ-11 connector  
 Connect analog telephone set  
 A-lead supervision provided

**RS-232**

DB-9 female  
 9,600 (default)/19,200/38,400 baud rate  
 8 bits, 1 stop, no parity  
 Hardware flow control on (default)/off

**Control/Status**

DB25 female  
 Inputs: active low (pull to ground)  
 Outputs: open collector, 40 VDC max, 40 mA each  
 +5 V pins (2), 300 mA each

**Mic/Line Input**

Push-on terminal block, balanced, bridging  
 Impedance: 5 kΩ  
 Nominal Level: adjustable -55 dBu, 0 dBu  
 Maximum Level: -33 dBu, +20 dBu  
 Echo Cancellation: 120 ms tail time (works with 12 dB of room gain)  
 Phantom Power: 24 V, selectable

**AUX In**

Push-on terminal block, balanced, bridging  
 Impedance: 20 kΩ  
 Nominal Level: 0 dBu  
 Maximum Level: 19 dBu

**4-Wire/Video Codec In**

Push-on terminal block, balanced, bridging  
 Impedance: 20 kΩ  
 Nominal Level: 0 dBu  
 Maximum Level: 19 dBu

**Line Output**

Push-on terminal block, balanced, bridging  
 Impedance: 50 Ω  
 Nominal Level: 0 dBu  
 Maximum Level: 19 dBu

**AUX Output**

Push-on terminal block, balanced, bridging  
 Impedance: 50 Ω  
 Nominal Level: 0 dBu  
 Maximum Level: 19 dBu

**4-Wire/Video Codec Out**

Push-on terminal block, balanced, bridging  
 Impedance: 50 Ω  
 Nominal Level: 0 dBm  
 Maximum Level: 19 dBu

**Speaker Output**

Binding post; 5 W max into 4 Ω

**Power Input Range**

Auto-adjusting  
 100-240 VAC; 50/60 Hz

**Power Consumption**

30 W typical

**Operating Temp**

32 to 100° F/0 to 38° C

**Humidity**

15% to 80%, non-condensing

**Approvals**

FCC, ASA, CE

**Dimensions (L x D x H)**

17.25" x 10.25" x 1.75"  
 43.8 x 26 x 4.5 cm

**Weight**

7 lb/3.18 kg dry  
 12 lb/5.4 kg shipping

**Part Number**

910-114-101 GT1524 Single Channel Echo Cancellor

> CLEARONE LOCATIONS

**Headquarters:**  
 Salt Lake City, UT USA  
 5225 Wiley Post Way  
 Suite 500  
 Salt Lake City, UT 84116  
 Tel: 801-975-7200  
 800-945-7730  
 Fax: 801-977-0087  
 sales@clearone.com

**Latin America**  
 Tel: 801-974-3621  
 global@clearone.com

**EMEA**  
 Tel: 44 (0) 1189 036 053  
 global@clearone.com

**APAC**  
 Tel: 801-303-3388  
 global@clearone.com