

GT-01-DSP is a member of the Garantir family of DSP products. GT-01-DSP is an advanced, professional 6 x 2 audio matrix switcher that includes multi-channel DSP, Acoustic Echo Cancellation, HDMI de-embedding, and class compliant USB audio interface. The comprehensive and user-friendly graphic interface makes configuring every detail of your audio system intuitive and easy.

- **Super Advance Audio Matrix Switcher:** Professional, studio grade signal conversion technology, Including the latest generation 32-bit advanced Digital Analog Converter architecture to achieve excellent dynamic performance and improved tolerance to clock jitter. Maintains the quality of the original audio signal with selectable sampling rates up to 96 kHz. Flat frequency response, unmatched sonic performance, excellent signal to noise ratio, and extraordinarily low distortion levels.
- **Teleconference Optimized:** Features Acoustic Echo Cancellation, that prevents the microphone from picking up the far-end echoed speech, so you only share the audio spoken directly into the microphone.
- **Intuitive and Comprehensive Configuration:** Via a powerful, user-friendly graphic interface, set volume (gain and attenuation) and DSP per input; execute routing and select line in, mic in, phantom power or line out on each port; configure master level and more. Control signal routing, volume and other basic settings using API commands via RS-232 communication transmitted by a PC, touch screen system or other serial controller.
- **Audio De-embedding:** De-embeds the audio signal from the HDMI input for routing to any of the outputs.
- **Easy & Cost-Effective Maintenance:** LED indicators for main power, line in/out, mic in, clipping, and HDMI input selection, enable easy local maintenance and troubleshooting. Local firmware upgrade via the USB type-B port ensures lasting, field-proven deployment.
- **Wide Range of I/O:** Includes 2 HDMI inputs, 1 unbalanced & 4 balanced analog audio inputs, 2 balanced analog audio outputs, 1 HDMI output, and 1 bidirectional USB plug & play audio port.
- **Video Resolution:** 4K@60Hz (4:4:4)
- **Reliable Power over Ethernet Powering:** Accepts power from a remote PoE provider with optional mains powering from connected power adapter.
- **Multi-Channel Processing:** Provides Digital Sound Processing that enables simultaneous processing of all input and output signals.

Digital Sound Processor	
Parameters	Specifications
Input	2 HDMI: On female HDMI connectors 4 Balanced Mono Audio: On 3-pin terminal blocks 1 Unbalanced Stereo Audio On a 3.5mm mini jack
Output	1 Balanced Stereo Audio On a 5-pin terminal block connector 1 HDMI: On a female HDMI connector
Ports	1 USB Audio: On a female mini USB-B connector 1 RS-232: On a 3-pin terminal block 1 Ethernet: On an RJ-45 female connector
Line/Mic Level Input	Impedance Unbalanced: 7.6kΩ Impedance Balanced: 3.8kΩ Impedance Microphone: 3.8kΩ Nominal level Unbalanced: 0dBV (0.77Vrms)

	Nominal level Balanced: +6.8dBu (1.54Vrms) Maximum level (Balanced): +8dBu (2Vrms) Sensitivity Unbalanced: Full power @ 0dBV (0.77Vrms) Sensitivity Balanced: Full power @ +6dBu (1.54Vrms) Phantom Power: 48 VDC on/off per input
Line Level Output	Impedance Unbalanced / Balanced:500Ω Frequency Response:20Hz – 20kHz @ +/-1dB S/N Ratio: >85dB, 20Hz – 20kHz, at unity gain (unweighted) Audio THD + Noise: <0.01%, 20 Hz – 20kHz, at unity gain Crosstalk: <-85dB, 20Hz to 20kHz
Video	Max Bandwidth: 18Gbps (6Gbps per graphic channel) Max Resolution: 4K@60Hz (4:4:4) Compliance: HDMI and HDCP 2.2
User Interface	Indicators: Power and audio port status LEDs Controls: Input selection buttons
Control RS-232	Baud Rate: 115200
Supported PC Web Browsers	Windows: Chrome
Power	Source: PoE or 12V DC 5A adapter Consumption 630mA
Environmental Conditions	Operating Temperature: 0° to +40°C (32° to 104°F) Storage Temperature: -40° to +70°C (-40° to 158°F) Humidity: 10% to 90%, RHL non-condensing
Enclosure	Size: DemiTOOLS® Type: Aluminum Cooling: Convection
Accessories	Included: One 2 meter USB 2.0 type-A male to type-B male cable, power adapter, bracket set, rubber feet
Product Dimensions	19.05cm x 5.96cm x 2.74cm (7.50" x 2.35" x 1.08") W, D, H
Product Weight	0.2kg (0.4lbs) approx.
Shipping Dimensions	34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05") W, D, H
Shipping Weight	0.6kg approx.



Ordering Information:

Part Code	Description
GT-01-DSP	Digital Sound Processor is an advanced, professional 6 x 2 audio matrix switcher that includes multi-channel DSP, Acoustic Echo Cancellation, HDMI de-embedding, and class compliant USB audio interface.

