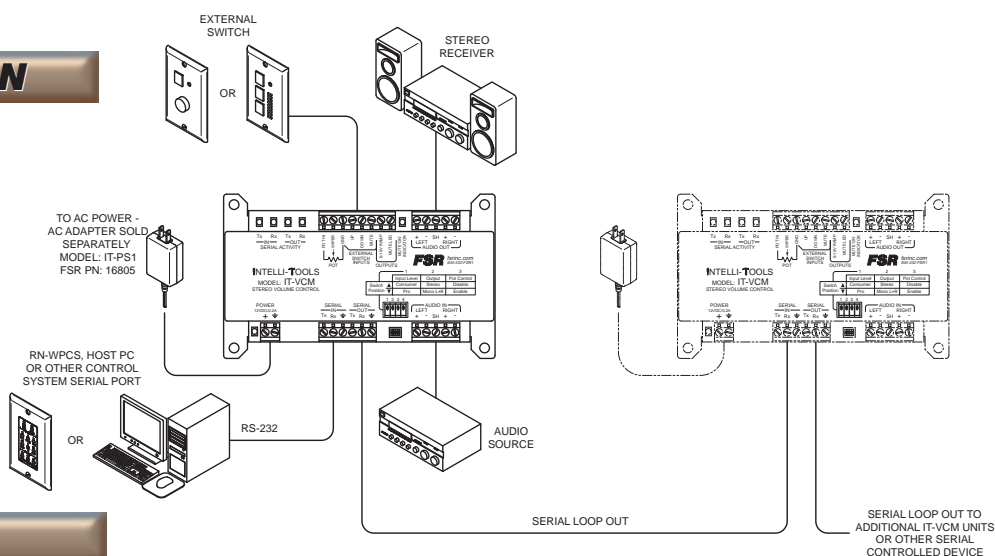


LIT1249A

TYPICAL APPLICATION

- Home Theater
- Audio Source Muting
- Audio level status
- Remote volume control

Multiple serial controlled devices can be daisy chained together through a serial loop though port without sacrificing a control port on the control system.



SPECIFICATIONS

Conditions unless noted: Volume= -10dB, Bass=0dB, Treble=0dB, Balance=Center, Mode=Stereo Pro 0dBm= 1mW into 600 ohm; 0.775 Vrms

Input Number/Type	1 stereo, balanced or unbalanced
Connector	Fixed 5 position screw terminal
Impedance	20k ohms balanced, 10k ohms unbalanced
Maximum Input Level	+18dBm (Pro mode), +6dBm (consumer mode) Volume set at -10dB
CMRR	>50dB
Input Controls:	
Pro/Consumer mode	Pro mode provides unity gain with volume set to 0 dB. Consumer mode provides +12dB boost.
Mono/Stereo Mode	Mono Mode provides L+R input sum fed to both left and right outputs
Bass	±15dB @ 40 Hz in thirty one 1dB steps (with volume =0dB) controllable from serial port only
Treble	± 15dB @ 16kHz in thirty one 1dB steps (with volume =0dB) controllable from serial port only
Balance	Left or Right channel cut by 20dB in thirty one steps controllable from serial port only
Volume	0 to -62dB in 1dB steps. The 63rd step provides full attenuation of at least 70dB controllable from pot, input switches or serial port.
Mute	Attenuates input signal by at least 95dB controllable from input switches or serial port.
Output Number/Type	
1 Stereo balanced or unbalanced	
Connector	Fixed 5 position screw terminal
Impedance	50 ohm balanced (intended to drive a 600 ohm or higher load)
Maximum output level	+13dBm
Frequency response	20 Hz-20kHz ±0.5dB
S/N	80dB
THD	0.1% @ 1kHz @ +2dBm in "Pro" mode
Power	+12 VDC @ 200 mA maximum
Power Supply	Universal input IT-PS1 (12VDC 1A supply available separately and will power up to five IT-VCM modules)
Connector	Fixed 2 position screw terminal
On Board LED indicators	Power Input Supervisor, Mute Status, Serial Input Rx/Tx, Serial Output Rx/Tx
Control Inputs	Volume up, Volume down and Mute via contact closure to ground. 3K impedance
Volume Potentiometer (also see NOTE "x" below)	External 10K linear taper pot 3 wire connection (can also accept a 0-12VDC external control voltage)
Mute LED Output	3.3VDC output, 330 ohm impedance (direct drive to an external 10 mA LED)
Ramp Output	0-10VDC output, 500 ohm impedance (Intended to drive a high impedance control system analog input or external bar graph display)

NOTES: *Must enable "Pot Control" mode switch to use pot. Volume Up/Down switches and serial control of volume are disabled when pot is enabled. Serial port can be used to query pot level setting. Mute switch is still active when pot is enabled.

Settings retention All current settings are saved in non-volatile flash memory upon power loss.
Settings include: Volume, Bass, Treble, Balance, Mute.



Specifications are subject to change without notice.



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