

The Audio add-on board P/N 416950001-3 designs for working with any of DV controllers as an independent amplifier with an external potentiometer volume adjustment.

The Audio add-on board P/N 416950001-3 can operate under 12VDC power input environment only.



Electrical Specification :

Supply Voltage : +12V
Supply current : 35mA for +12V

Output power : 2.0W for 4 ohm load
1.0W for 8 ohm load

Use of connectors :

Connector	Description	Connector type
IN	Audio input port	JST B4B-PH-K or compatible (Matching type : PHR-4)
OUT	Audio output port	JST B4B-PH-K or compatible (Matching type : PHR-4)
POWER	12V power input port	JST B2B-XH-A or compatible (Matching type : XHP-2)
SPK_OUT	Speaker output with audio amplification port	JST B3B-XH-A or compatible (Matching type : XHP-3) Suggested matching speaker kit P/N 426452400-3 (8 ohm 2W speaker) or P/N 426452900-3 (4 ohm 3W speaker)
VR1	External potentiometer volume adjustment	2 row 3 pins header Suggested matching 47Kohm VR extend cable P/N 426890500-3

Pin Assignments :

IN – Audio input port

Pin	Pin definition
1	Ground
2	Audio (Left) In
3	Ground
4	Audio (Right) In

OUT – Audio output port (By-passed only, No audio amplification)

Pin	Pin definition
1	Ground
2	Audio (Left) Out
3	Ground
4	Audio (Right) Out

SPK_OUT – Speaker output with audio amplification port

Pin	Pin definition
1	Speaker (Left) Out
2	Ground
3	Speaker (Right) Out

POWER – 12VDC power input port

Pin	Pin definition
1	12VDC input
2	Ground

VR1 – External potentiometer volume adjustment.

Pin	Pin definition
1	Audio (Left) In
2	Audio (Right) In
3	Wiper (Left)
4	Wiper (Right)
5	Ground
6	Ground

Jumper settings :

VR1 :

Open = For external potentiometer volume adjustment connection

1-3 & 2-4 = Default maximum volume output

3-5 & 4-6 = Default minimum volume output

JP1 :

Open = Normal

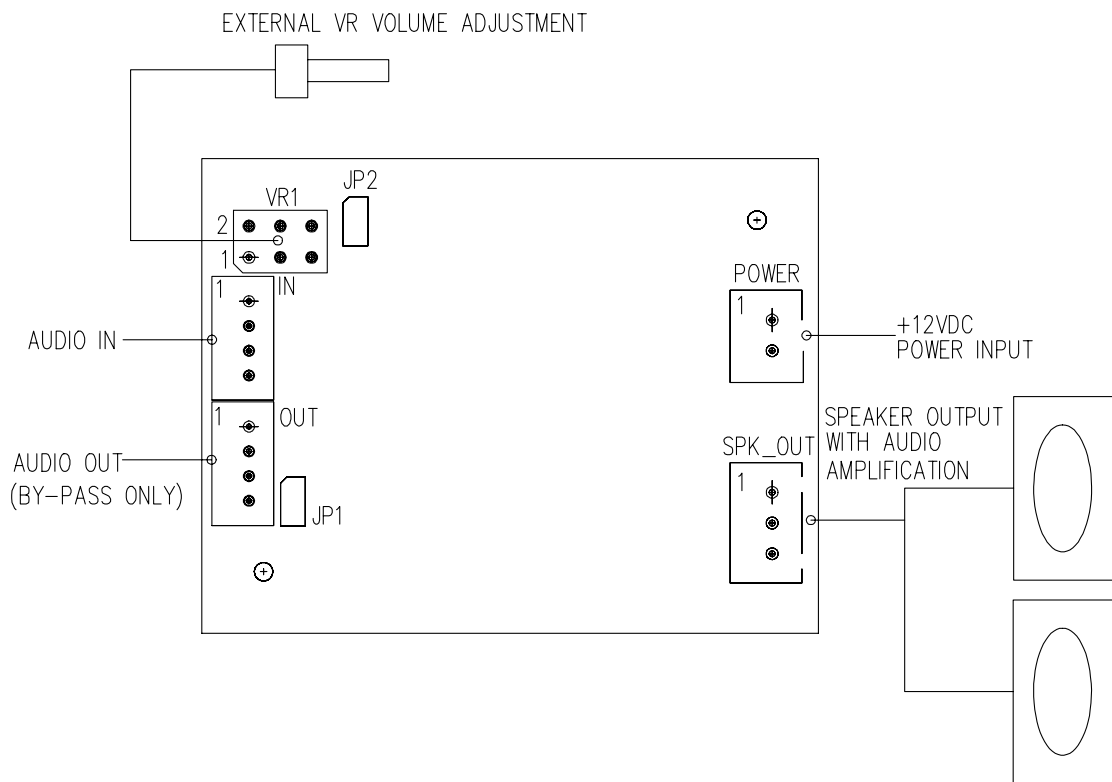
Closed = Mixed audio Left and Right input

JP2 :

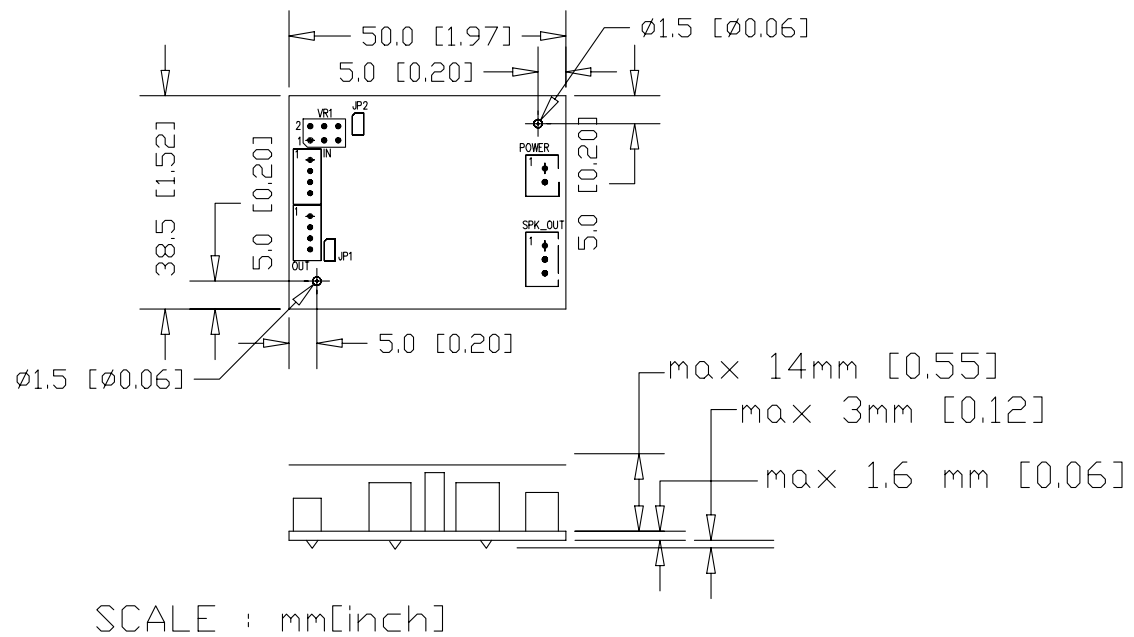
Open = Stereo output

Closed = Mono output

Connection diagram :



Mechanical Drawing :



Date : 28 May 2008