D-Cell504 DSP

D-Cell504 DSP is a "small and smart" amplification platform consisting of two 100 x 78 mm boards – power supply and 2-channel output stage – a tiny jewel of flexibility, high performance and compactness.
Able to deliver up to 700 W in bridged mode, the amplifier is available with an integrated DSP chip on board, allowing full customization of the processing architecture with no need for any additional boards or wiring. The AC power supply, with PFC for worldwide operation and optimal performance in all conditions, can drive two amplifier units, making the **D-Cell504 DSP** an ideal solution even for 3-way systems.

Specifications

AC Mains Power		
	Operating voltage	AC 100 V - 250 V ± 10%, 50/60Hz
	Efficiency	> 75% (typical)
	Start-up voltage	90 V
	Power consumption	
	1/8 of max power @ 8 Ω bridged	121 W
	Max aux supply current draw	250 mA
	Max environmental operating temperature	40°C (104°F)
Construction		
	Dimensions	100 mm x 78 mm x 45 mm (4" x 3" x 1.8")
	Weight	0.3 kg (0.66 lb)

PFC · FIXED switching frequency · +2ch available · DSP on board

Technical Support

Should you encounter any difficulties in operating this amplifier module, please do not hesitate to contact our technical support. We will be glad to be of assistance.

support@powersoft.it

Powersoft
Via Enrico Conti, 13/15
50018 Scandicci - Firenze
Italy
Tel/fax: +39 055 735 1386

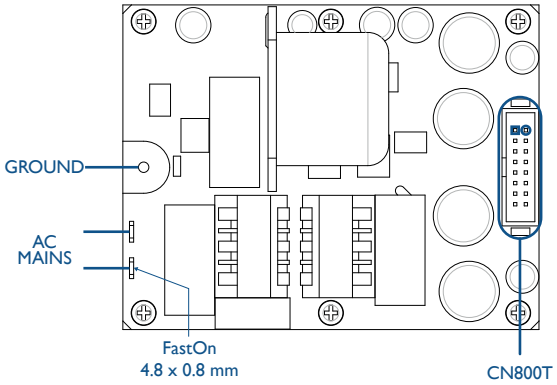
Powersoft
Via Enrico Conti, 5
50018 Scandicci (FI)
www.powersoft-audio.com

Quick Guide

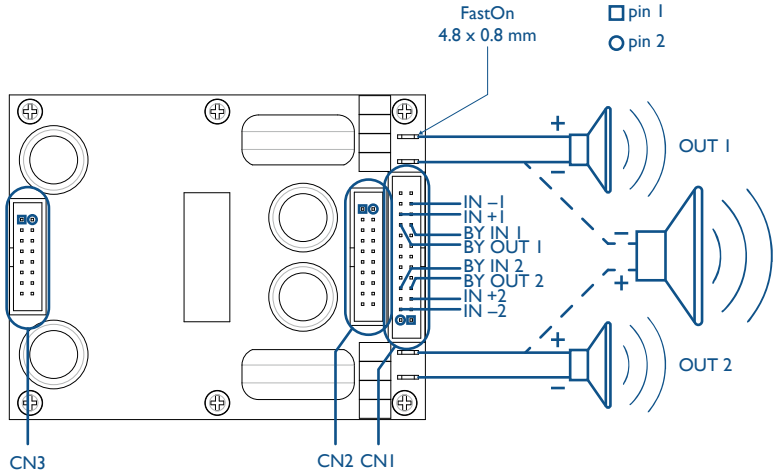
D-Cell504 DSP

D-Cell504 DSP

AC power supply unit



Amplifier unit with DSP



Notes

- **CN1 connector**
  BY IN and BY OUT pins 19-20 (channel 1) and 7-8 (channel 2) are available to insert external controls (filters, volume, etc.); if no external control is applied **shunt pins 19-20 (channel 1) and 7-8 (channel 2) for input signal to pass**.

- **CN2 connector**
  Use flat cable CB00259 to connect the D-Cell504 DSP to either the Programming Board Lite (SM000596) or Pro (SM000667) in order to program the built-in DSP.

- **CN3 connector**
  Use flat cable CB00255 to connect the D-Cell504 DSP Amplifier Unit to the D-Cell504 AC power supply unit (PF000218) or D-Cell504 DC power supply unit (PF000235).

Powersoft
Via Enrico Conti, 5
50018 Scandicci (FI)
www.powersoft-audio.com

CN1	
1	GND
2	-12 VDC
3	DSPOUTCH4
4	**IN -2 EXT**
5	**IN +2 EXT**
6	GND
7	BY OUT2
8	BY IN2
9	PRTOUT2
10	MUTE
11	TEMPOUT
12	PRSTLED01
13	PRSTLED02
14	PRSTLED03
15	PRSTLED03
16	READYOUT
17	PRSTSELECT
18	PRTOUT1
19	BY IN1
20	BY OUT1
21	GND
22	**IN +1 EXT**
23	**IN -1 EXT**
24	DSPOUTCH3
25	+12VDC
26	GND

CN2	
1	GND
2	IOUT1MONITOR
3	ZLOAD1
4	EARECT1
5	RESERVED
6	RESERVED
7	RESERVED
8	RESERVED
9	RESERVED
10	RESERVED
11	TEMP
12	RESERVED
13	RESERVED
14	RESERVED
15	RESERVED
16	+ 5 VDC
17	EARECT2
18	ZLOAD2
19	IOUT2MONITOR
20	GND

CN3	
1	+VCC
2	+VCC
3	+VCC
4	+VCC
5	GND
6	GND
7	+12VDC
8	+7.5VDC
9	RESERVED
10	-12VDC
11	GND
12	GND
13	-VCC
14	-VCC
15	-VCC
16	-VCC