

D404C

D404C achieves any effects you want and has full confidence to deliver a high-quality effect sound achieves the level of famous brands in the world. Expecting for a high quality DSP algorithm suits for each application, we also integrate varieties of powerful user interface into the module. In addition, Trigaudio provides control panel board with multi-function display and hardware user interface to support a quick evaluation of the module.

In addition to the standard applications we design, Trigaudio's great engineer team are composed of professional players and recording engineers that will provide quick and complete customize service for DSP algorithm and user interface based on the module to help customers' products quick time to market.

Applications

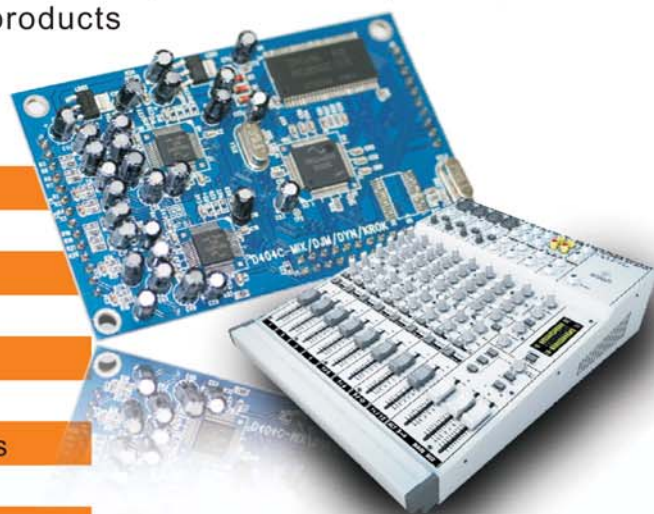
For Mixer/DJ-mixer Reverb processor...

Features

- Premium application for Mixer/DJ-mixer Reverb processor...
- 24 bit digital signal processing with 24 bit AD/DA converters, supports up to 96KHz sampling rate
- Provide over 1.68 sec of delay at 48kHz sampling frequency
- Convenience with diverse and applicative Operation with multi-function control board (including LED/LCD panel) for quick evaluation and making a maximal creativity
- Acoustic effects can reedit from customers such as reverbs, echo, phaser, chorus, flanger, delay(enhance tap delay function), vocoder... etc
- Vintage dynamic processor of feedback cancelation with compressor and Equalizer
- ROHS compliant (PB-free) is provided in all of our products

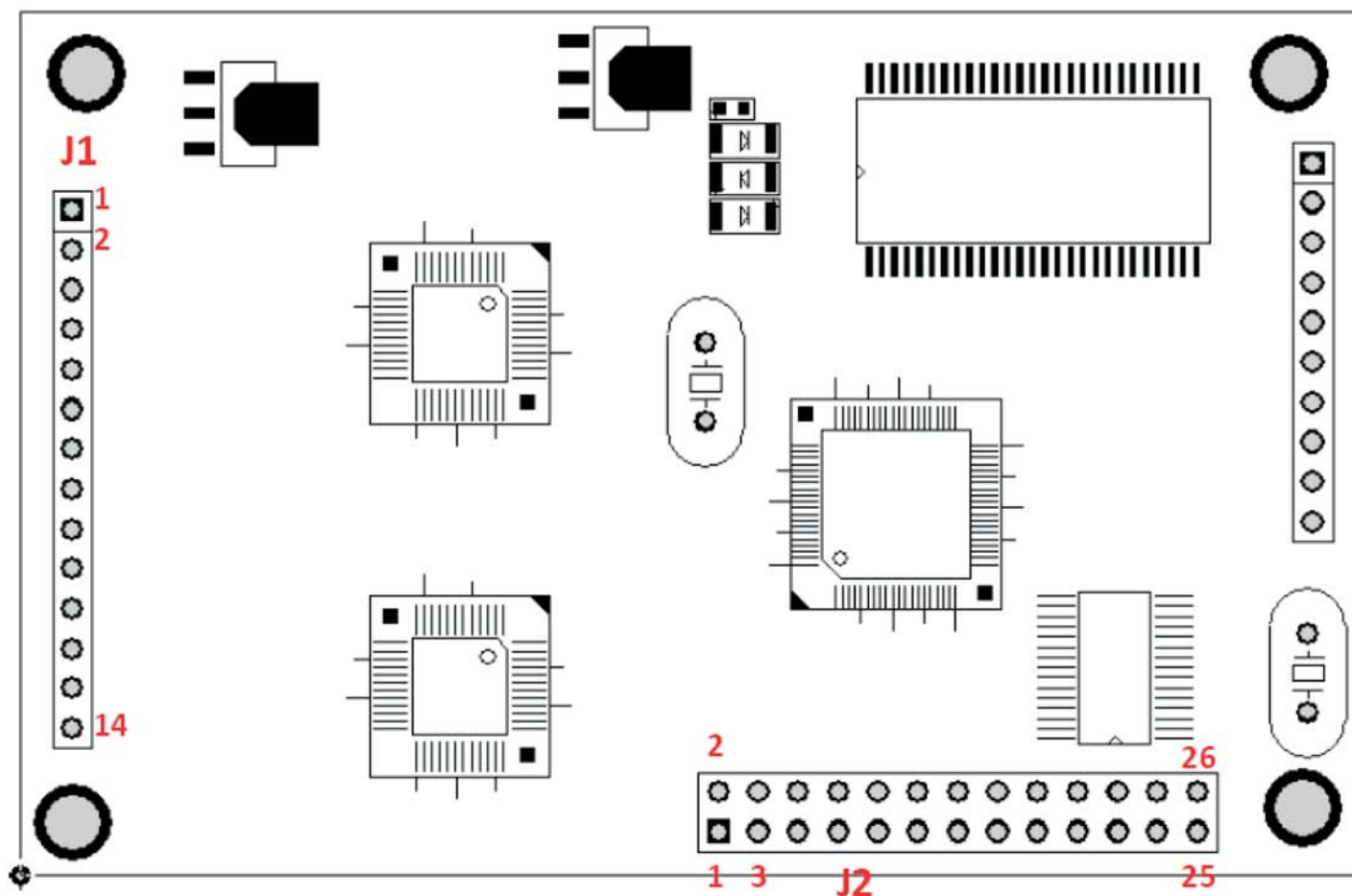
Specification

Analog input signal	4ch
Input impedance	100k Ω
Analog output signal	4ch
Output impedance	470k Ω
Maximum input level	0dBu or 2.8Vp-p
Maximum output level	0dBu or 2.8Vp-p
Nominal Level	0dB
DSP arithmetic	24x32 bit for filtering process
AD/DA conversion	24bit/48kHz
S/N ratio	>100dB
THD+N	0.015%@1kHz 0dB
Frequency response	20Hz - 20kHz +/- 0.5 dB
Power supply	DC +6V, 160mA (Without display & controls)
Consumption	150 mA





1. Module Connector Pin Outs



● J1: power & signal connecter

J1	name	description
1	DC in	DC power in +6V ~ +9V
2	AGND	Analog ground
3	in_CH1	Analog audio signal input ch1
4	in_CH2	Analog audio signal input ch2
5	AGND	Analog ground
6	out_CH1	Analog audio signal output ch1
7	out_CH2	Analog audio signal output ch2
8	AGND	Analog ground
9	in_CH3	Analog audio signal input ch3
10	in_CH4	Analog audio signal input ch4
11	AGND	Analog ground
12	out_CH3	Analog audio signal output ch3
13	out_CH4	Analog audio signal output ch4
14	AGND	Analog ground

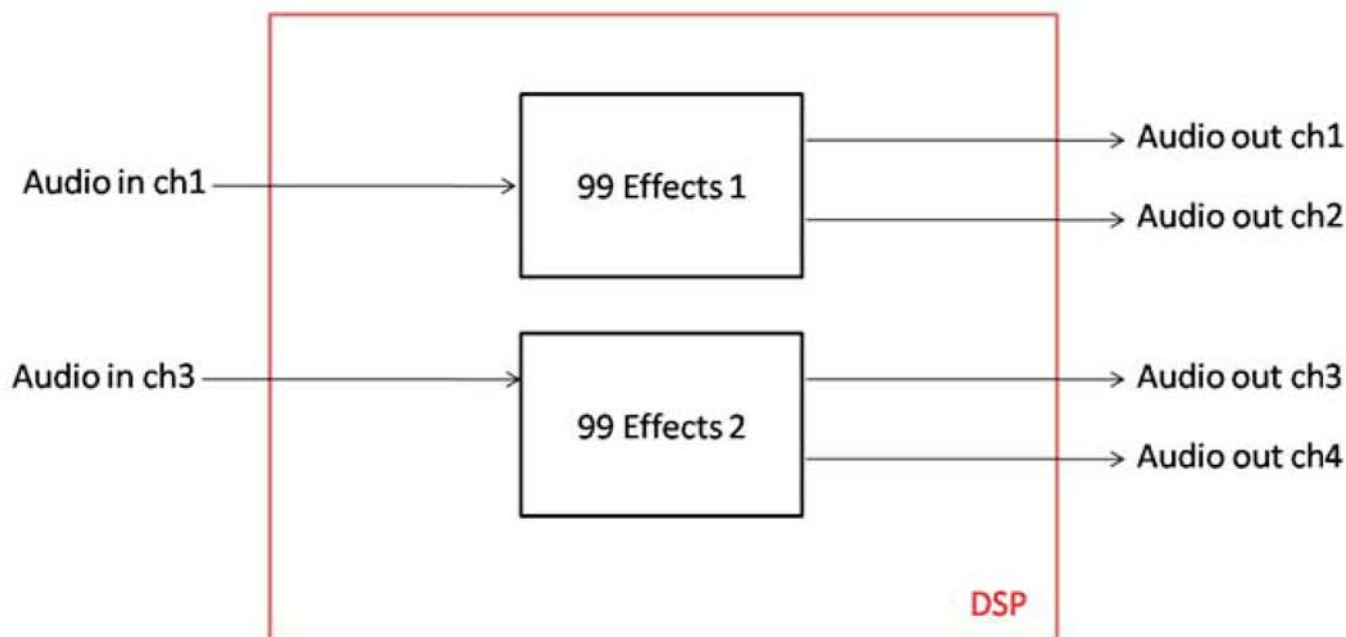
● J2: display & control connecter

description	name	J2		name	description
Digital ground	DGND	1	2	DGND	Digital ground
Digital I/O	P0.10	3	4	D0	Digital I/O
Digital I/O	P0.12	5	6	D1	Digital I/O
Digital I/O	P0.11	7	8	D2	Digital I/O
Digital I/O	P0.15	9	10	D3	Digital I/O
Analog Input	Vin	11	12	D4	Digital I/O
Digital I/O or Analog Input	AIN0	13	14	D5	Digital I/O
Digital I/O or Analog Input	AIN1	15	16	D6	Digital I/O
Digital I/O or Analog Input	AIN2	17	18	D7	Digital I/O
Digital I/O or Analog Input	AIN3	19	20	MCU_P10	Digital I/O
Digital I/O or Analog Input	AIN4	21	22	MCU_P11	Digital I/O
Digital I/O or Analog Input	AIN5	23	24	MCU_P12	Digital I/O
Voltage supply for ext. connection	Vext	25	26	Vext	Voltage supply for ext. connection

2. Programs

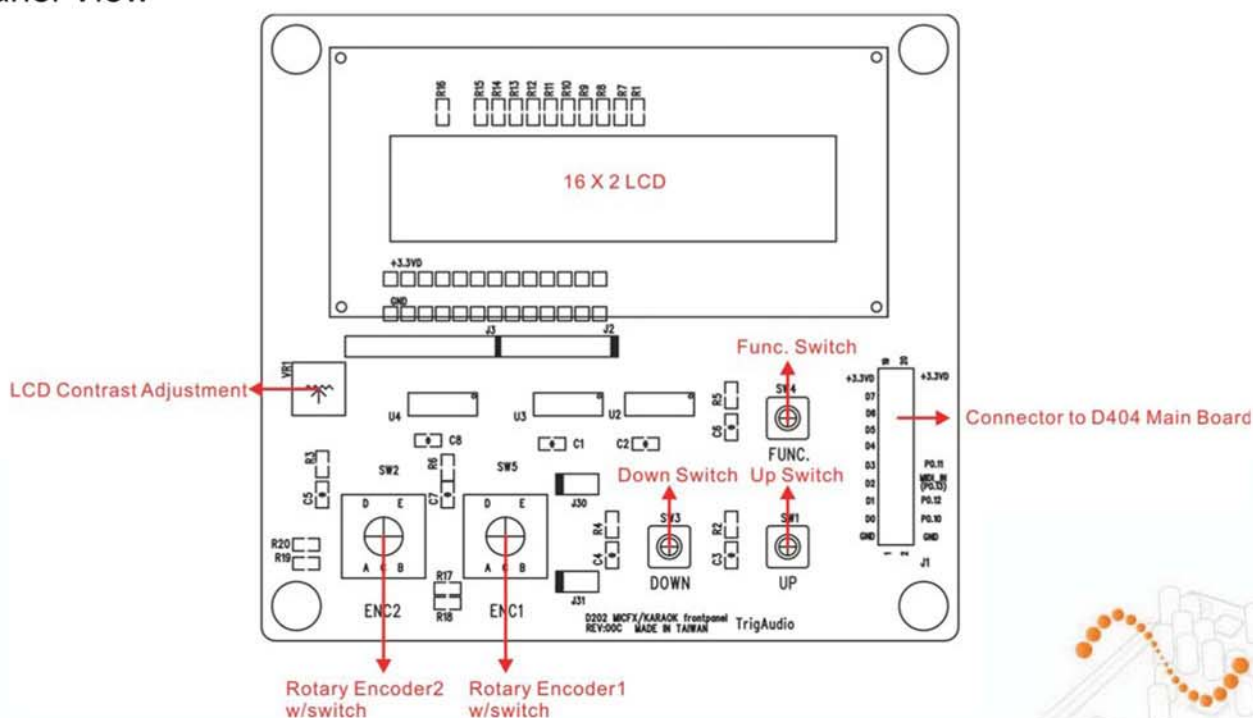
(A) Mixer Program 1 : Double 99 effects

(1) Block Diagram & Description



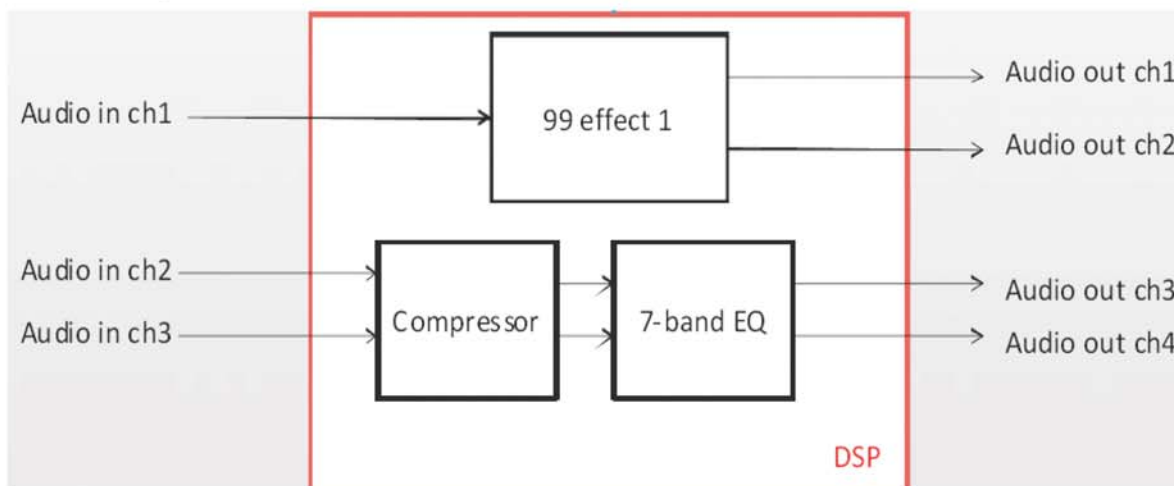
- Double 99 effects processor in one board
- LCD display

(2) Panel View



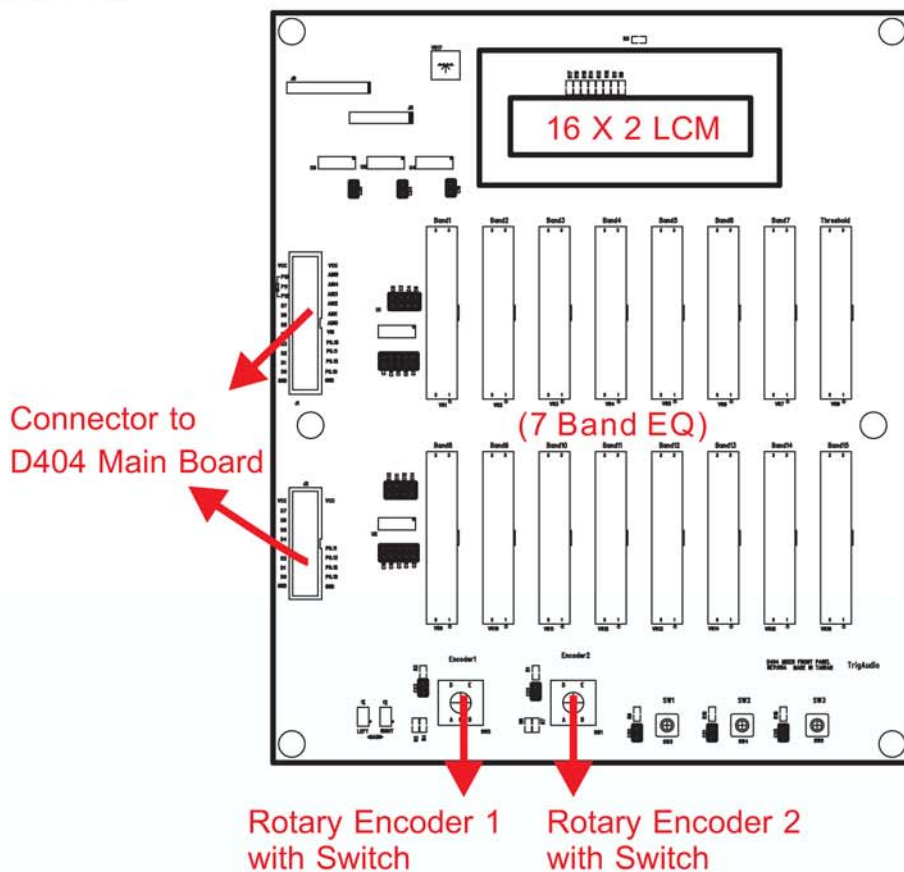
(B) Mixer Program 2 : Single 99 EFX(1 in / 2 out) and Compressor with 7 band EQ (2 in/ 2 out)

(1) Block Diagram & Description



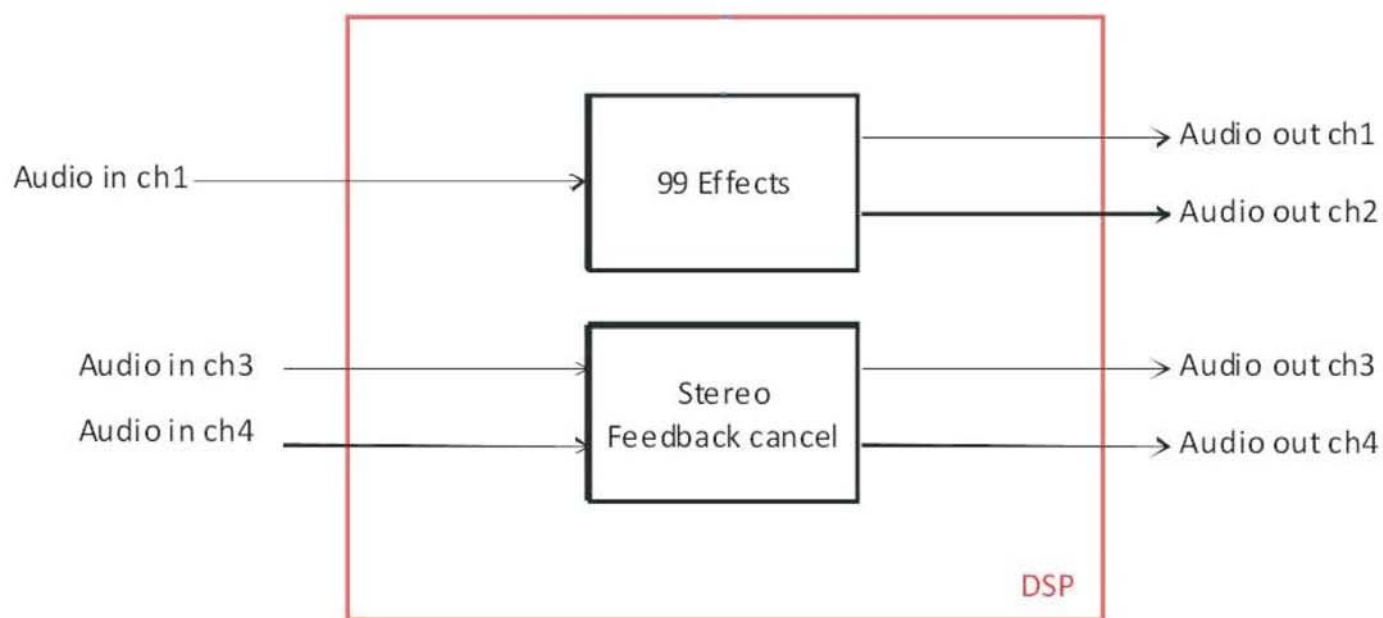
- Single 99 effects with jump and mute functions
- Compressor with four adjustable parameters: Attack time, Release time, Threshold, and Ratio
- 7 band EQ with range from -14dB to +14dB

(2) Panel View

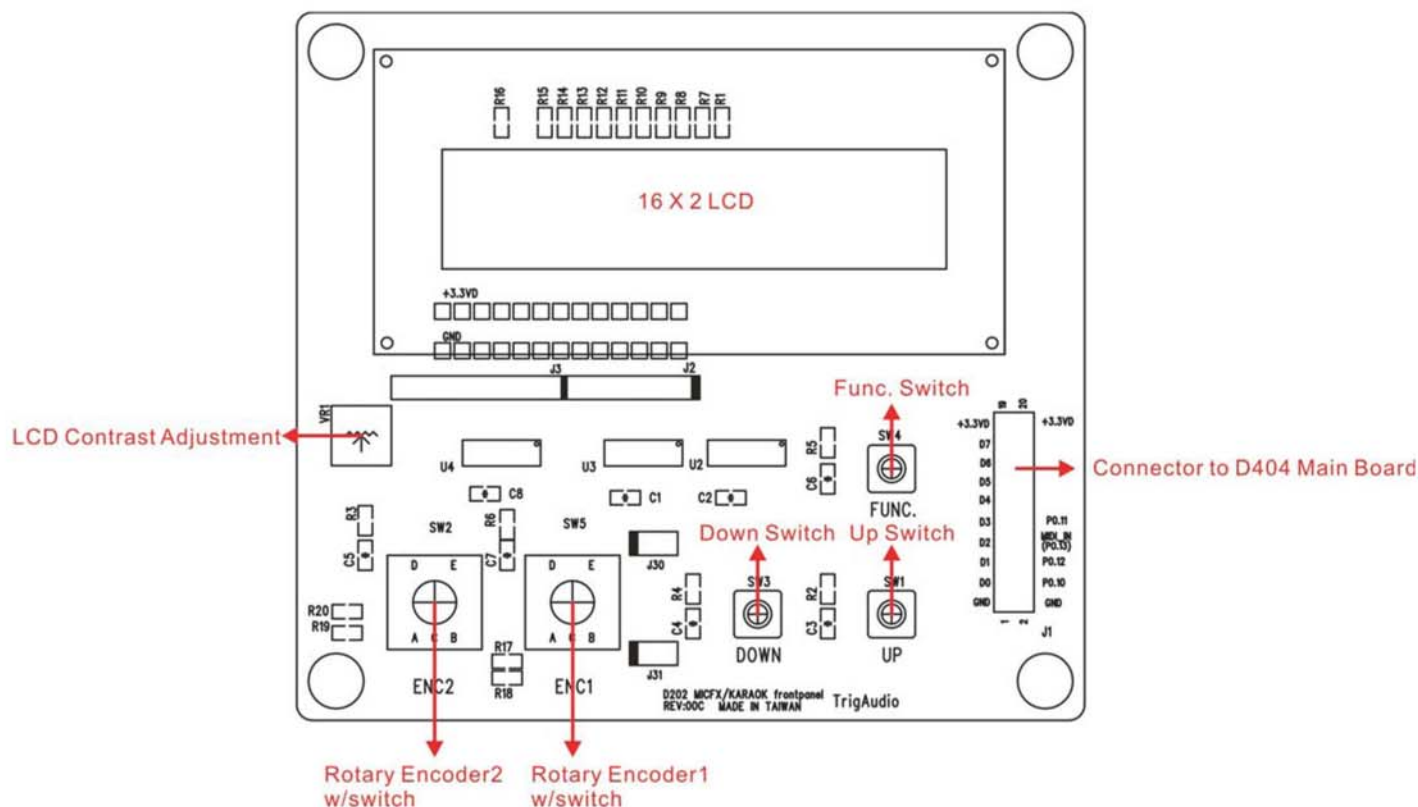


(C) Mixer Program 3 : Single 99 EFX(1 in / 2 out) and FBC (2 in/ 2 out)

(1) Block Diagram & Description



(2) Panel View & Description



- **Up Switch:**
click - jump to the previous selected effect in Page 1
press and hold for 1 sec - change page
- **Down Switch:**
mute effect sound in Page 1
change the FBC Q value in Page 3
- **Func. Switch:**
FBC bypass on/off in Page 1
- **Encoder 2:**
select a effect in Page 1
select each Notch filter of L/R for viewing its status in Page 2
- **Switch of Encoder 2 :**
change to the effect user currently select in Page 1
select to view the Notch filter of Right or Left channel in Page 2

3. Board Dimension

