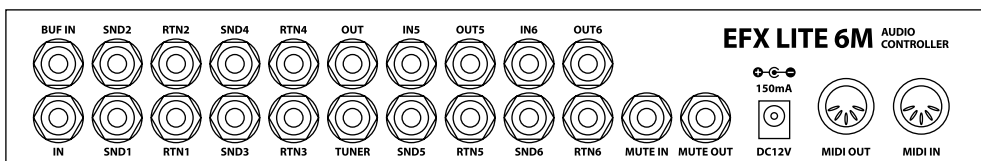
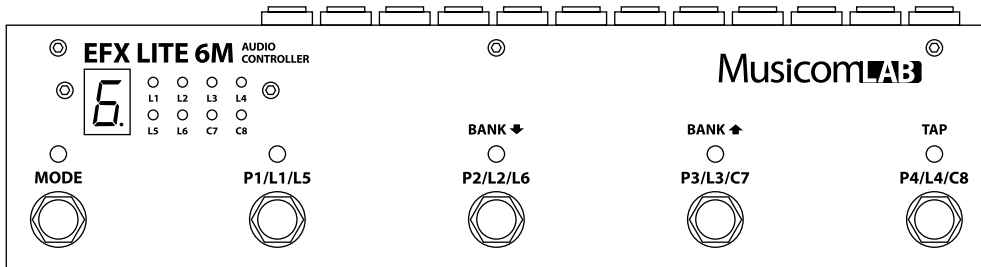


EFX LITE 6M AUDIO CONTROLLER

USER MANUAL (Rev 1.0)



Musicom AB

1. Introduction

The EFX LITE 6M Audio Controller is the ultimate floor-based switching system. It is a compact, easy to use, has 6 fully programmable loops and a MIDI foot controller.

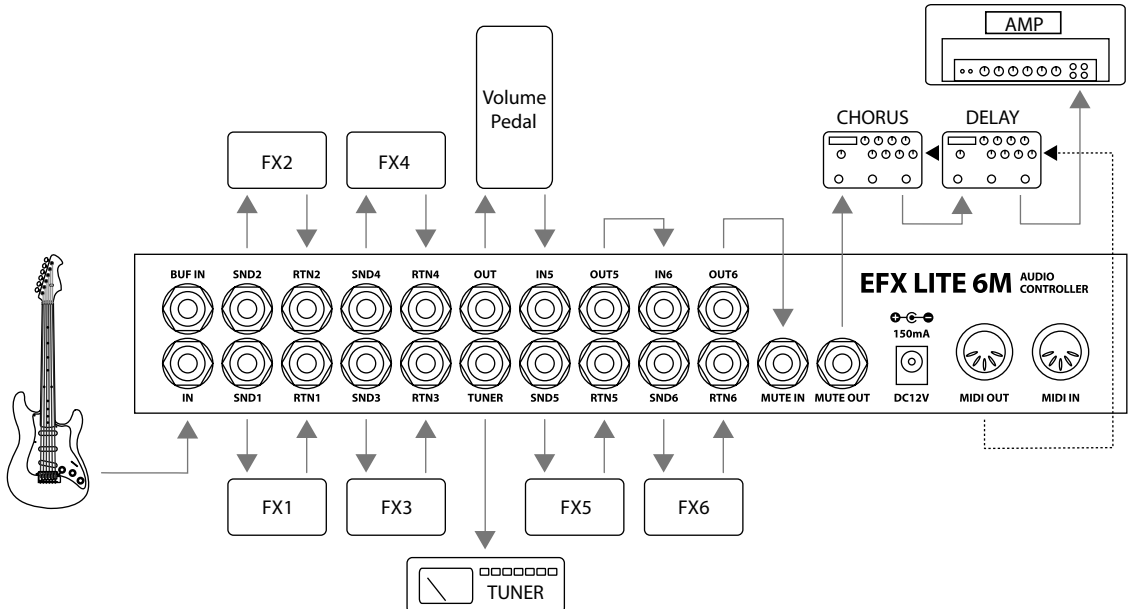
The EFX LITE 6M Audio Controller has 60 memory locations, configured as 15 banks of 4 presets, plus a global preset. It can transmit 2 MIDI Program Change messages on 2 MIDI channels and 8 MIDI Control Change messages on an appointed MIDI channel.

The EFX LITE 6M Audio Controller has a low-noise, high quality buffer to prevent the loss of guitar signal.

The EFX LITE 6M Audio Controller is made of high quality parts, including heavy-duty stomp switches and gold-plated relays.

It is cased within a compact and rugged aluminium enclosure.

2. Basic Connection



3. Mode Description

The EFX LITE 6M Audio Controller utilizes two modes of operation: Preset Mode and Instant Access Mode. On power-up, the display will show its firmware version, upon which bank 1 and the global preset will be selected.

3.1 PRESET MODE

The EFX LITE 6M Audio Controller has 60 presets, configured as 15 banks of 4 presets, plus a global preset which is common to all banks. (Bank : 1, 2, 3, ... , 9, A, B, C, D, E, F)

The Preset Mode is automatically selected when the power is initially turned on.

- ① Press & hold the MODE switch for 1 second. The LEDs above the P2 and P3 switches will flash.
- ② Press the P2(BANK DOWN) or P3(BANK UP) switches to scroll through the 60 available banks. The display will flash.
- ③ Press the MODE switch. The LEDs above the P2 and P3 switches will stop flashing.
- ④ The preset is selected via pressing any switches from P1 through P4. The display will stop flashing and the LED above the switch turns on.

NOTE : If you want to select P1, skip the procedure ③-④ and press the P1 switch.

The global preset is a preset with all the capabilities of preset 1 through 4, but is the same for all banks. Pressing the switch of a preset that is already on selects the global preset and will cause the LED above the switch to turn off.

MUTE

Press & hold the switch of a preset that is already on, for 1 second. The decimal point on the display will turn on and the audio signal will be muted.

To mute the audio signal, the audio line must be connected to the MUTE IN and MUTE OUT jacks.

Press the any preset switch to cancel the mute function. The mute function is not available on the global preset.

3.2 INSTANT ACCESS MODE (Programming the Loops)

- ① Select the preset to be programmed in the Preset Mode.
- ② Press the MODE switch to enter the Instant Access Mode. The display will show ' - '.
And the 4 LEDs above the P1 ~ P4 switches will indicate the corresponding Loop1 ~ Loop4 as on or off.
- ③ Press the P1 through P4 switches to turn the corresponding Loop1 ~ Loop4 on or off. The corresponding LEDs will go on or off and the decimal point on the display will flash.

- ④ Press the MODE switch. The display will show ' = '
- And the 4 LEDs above the P1 ~ P4 switches will indicate the corresponding Loop5, Loop6, CC7 and CC8 as on or off.
- ⑤ Press the P1 through P4 switches to turn the corresponding Loop5, Loop 6, CC7 and CC8 on or off. The corresponding LEDs will go on or off.
- ⑥ Press & hold the MODE switch and quickly press the P1 switch to store the edit and return to Preset Mode. For the other side, press & hold the MODE switch for 1 second to return to Preset Mode without storing the edit.
- ⑦ Follow the same procedure ①-⑥ for any other presets you want to program for the loops.

NOTE : The decimal point on the display will flash until the edit is stored or other preset is selected.

4. Using Tap-tempo Transmission via MIDI

The EFX LITE 6M Audio Controller can transmit a MIDI CC message to external MIDI devices for Tap-tempo.

- ① Press & hold the MODE switch for 1 second if you are in the Preset Mode.
- ② The LEDs above the P2 and P3 switches will flash.
- ③ The EFX LITE 6M Audio Controller transmits a MIDI CC through MIDI OUT jack whenever you press the P4 switch.
- ④ Press the MODE switch to return to Preset Mode.

NOTE : The initial default setting is MIDI Channel 2, Controller Number 93. Any MIDI CC is not transmitted when the P4 switch is released.

5. Set Latched / Momentary Type Switch

Loop 5 and Loop 6 will act as footswitches like those used for amp channel switching. Normally open and normally closed operation are selected by plugging into either the OUT5/6 jacks(for normally open), or the SND5/6 jacks(for normally closed).

Also the EFX LITE 6M Audio Controller supports both standard switch types, latched and momentary.

- ① Apply power while holding the MODE and P1 switches down to change the switch type of Loop5.
- ② The display will show 'L' or 'M' and the red L5 LED will turn on, and then the LED above P1 switch will flash. 'L' means Latched and 'M' means Momentary.
- ③ Press the P1 switch to change the switch type of Loop5.
- ④ This setting will store into the EEPROM memory and the EFX LITE 6M Audio Controller will automatically

restart.

- ⑤ Follow the same procedure ①-④ for Loop6. In case of the Loop6, The switches are MODE and P2.

NOTE : The initial default setting is 'L'

6. Popping Noise Reduction Control

The EFX LITE 6M Audio Controller is based on relay switching. This method is utilized to route the audio signal with absolutely no tone coloration or degradation. The disadvantage of relays is that they can produce a slight popping noise when they switch on/off. The Popping Noise Reduction Control is excellent for reducing this popping noise.

- ① Apply power while holding the MODE and P3 switches down.
- ② The display will show 'n' or 'F' and the LED above P3 switch will flash. 'n' means On and 'F' means Off.
- ③ Press the P3 switch to turn Popping Noise Reduction Control on/off.
- ④ This setting will store into the EEPROM memory and the EFX LITE 6M Audio Controller will automatically restart.

NOTE

- To use the Popping Noise Reduction Control, connect the MUTE OUT jack to the amplifier input jack. Refer to the basic connection drawing on page 2.
- The initial default setting is 'n'

7. Link DATA Send / Receive

7.1 DATA SEND

- ① Apply power while holding the P3 and P4 switches down.
- ② The display will show 't' and the LED above P3 switch will flash.
- ③ Press the P3 switch to transmit DATA to other unit or PC through MIDI OUT jack.
- ④ When the DATA sending is successful and the EFX LITE 6M Audio Controller will automatically restart.

7.2 DATA RECEIVE

- ① Apply power while holding the P2 and P4 switches down.
- ② The display will show 'r' and the LED above P2 switch will flash.
- ③ The EFX LITE 6M Audio Controller is ready to receive the DATA from other unit or PC through MIDI IN jack.

- ④ When the DATA receiving is successful and the EFX LITE 6M Audio Controller will automatically restart.

8. Initial Default Setting

The initial default setting for the EFX LITE 6M Audio Controller may be reset with the following procedure. This procedure will erase all user data from the EEPROM memory.

- ① Apply power while holding the P1 and P4 switches down.
- ② The display will show 'd' and the LED above P1 switch will flash. 'd' means Default.
- ③ Press the P1 switch

When the initial default setting is successful, the EFX LITE 6M Audio Controller will automatically restart.

Initial Default MIDI Transmit Setting

Receiving PC number Map

Bank/Preset	PC1, PC2		CC1 ~ CC6		CC7/CC8/TAP		Bank/Preset	PC NUM
	CH	NUM	CH	NUM	CH	NUM		
Global		61					Global	61
1 / 1		1					1 . 1	1
1 / 2		2					1 . 2	2
1 / 3		3					1 . 3	3
1 / 4		4			CC7:1	CC7:102	1 . 4	4
2 / 1	PC1:1	5	1	---	CC8:2	CC8:102	2 / 1	5
⋮	PC2:2	⋮			TAP:2	TAP:93	⋮	⋮
F / 1		57					F / 1	57
F / 2		58					F / 2	58
F / 3		59					F / 3	59
F / 4		60					F / 4	60

9. Specification

- Buffer Input Impedance 1 MΩ
- Buffer Output Impedance 100 Ω
- Current Draw 150 mA (DC12V Center Negative)
- Dimensions 300(W) x 82(D) x 55(H) mm
11.8(W) x 3.2(D) x 2.2(H) inches
- Weight 750 g / 1.65 lbs

10. Block Diagram

