

4-Channel Analog Interface Kit

Installation Instructions

for E4 Ultra

6868

The 4-channel Analog Interface card adds (4) 24-bit analog inputs to the Emulator Four Ultra with an R-FX card installed. Analog signals can be sent through the RFX system to have any number of effects applied, then routed to the analog or digital output of your choice. In addition, the analog signals can be sent through the E4 Ultra's voice structure to be filtered and shaped with the morphing filters and VCAs.

The modification is fairly easy to install, however if you are unsure of your abilities, please contact E-MU for referral to an authorized service center.

This kit cannot be installed in older Non-Ultra E4's due to hardware constraints.

Tools Needed:

Phillips head screwdriver #2

Kit Contents:

- (1) These installation instructions
- (1) Analog interface board
- (1) 16-pin ribbon cable

These instructions are not provided as a guarantee against improper installation. When in doubt, contact: E-MU Customer Service at (831) 438-1921. Contact E-mu UK at +44 (0) 131-653-6556.

WARRANTY MAY BE VOIDED IF DAMAGE IS CAUSED BY IMPROPER INSTALLATION, IMPROPER OR INADEQUATE MAINTENANCE, ACCIDENT, ABUSE, MISUSE, ALTERATION, UNAUTHORIZED REPAIRS, TAMPERING, OR FAILURE TO FOLLOW PROCEDURES OUTLINED IN THESE INSTRUCTIONS.

→ WARNING <

UNPLUG THE AC CORD BEFORE DOING ANY WORK!

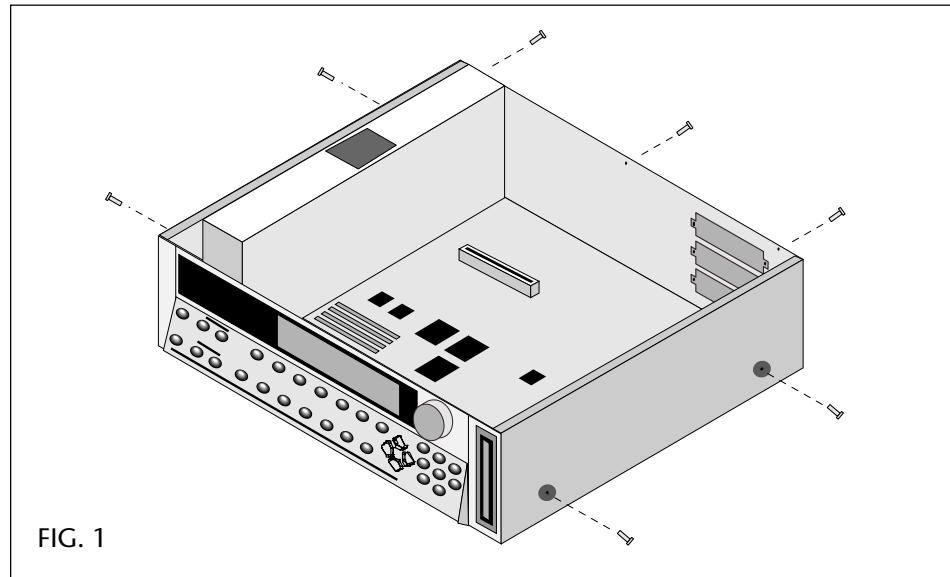
Groundwork

Before you begin, find a clean, well lit place in which to work. This procedure requires that you periodically "Ground" yourself, by touching a grounded object such as a water pipe or a grounded piece of equipment. Grounding yourself prevents the static charge in your body from damaging the sensitive memory chips. When you are asked to "Ground" yourself, simply reach over and touch the grounded metal. Do not walk across the room or a rug, as this will defeat the purpose of grounding.

 **Before you Begin:** The RFX card **MUST** be installed first in order to install the Analog Interface card!

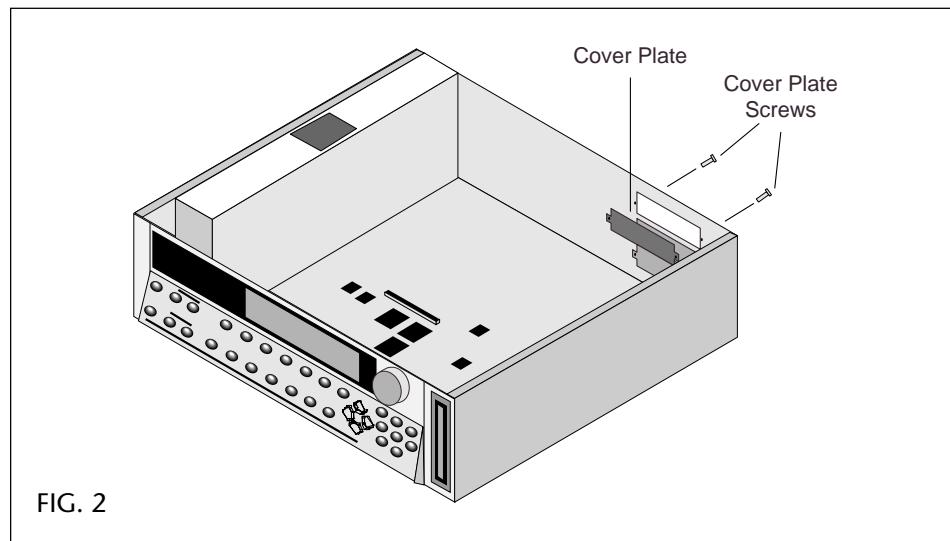
Remove the Top Cover

To gain access to the interior of the unit, the top panel must first be removed. The top panel is attached to the main chassis by means of (7) screws. There are three screws along the back of the unit and two on each side. When all the screws are removed, slide the metal top backwards and up off the unit, exposing the main circuit board. Set the top cover aside in a safe place and put the screws into a cup so they will not get lost. The power supply is covered by a metal box. Do not remove this metal cover!



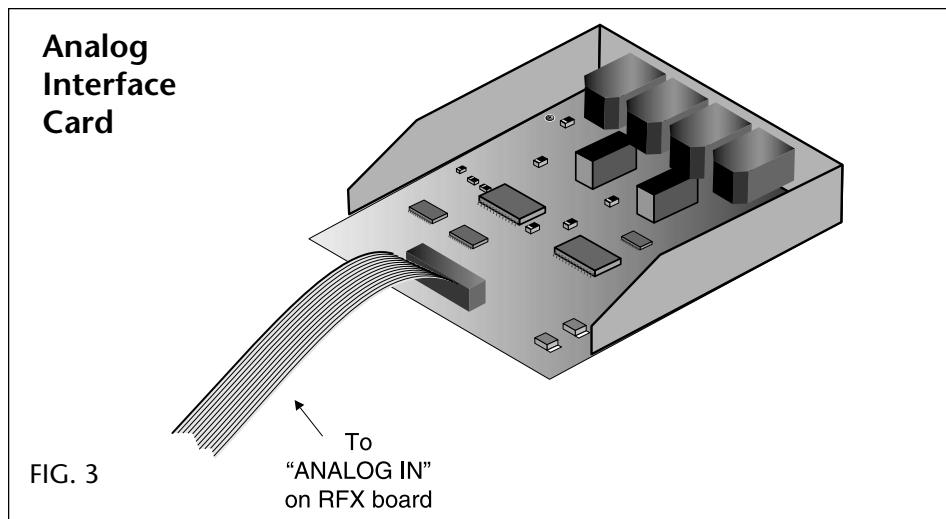
Remove the Metal Cover Plate

Before you install the Analog Interface board, you need to make a place for it. On the back of the unit there are three metal cover plates covering the three option card slots. Choose a slot and remove the two screws from the plate. Put these screws in a cup and save them for later reassembly. Remove the cover plate and store it with other "useful" things which don't seem to have any particular use.



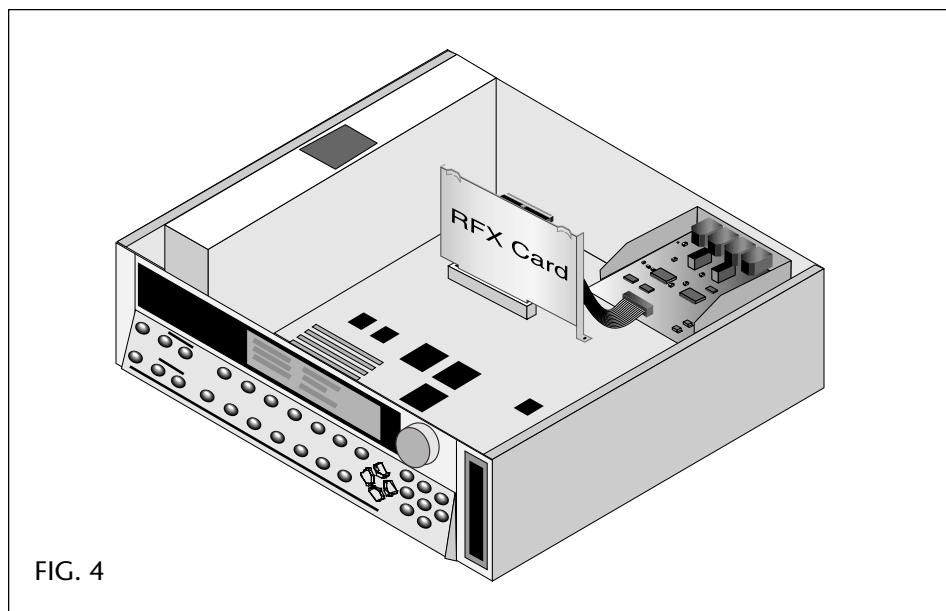
Install the Analog Interface Board

The Analog Interface Board is easy to install. Ground yourself again, by touching a grounded object, then remove the board from its protective bag.



Install the Analog Interface board from the inside of the unit (see the diagram below). While holding the card with one hand, secure with one screw from outside the unit. Use the same screws that were holding the cover plate.

Next install the second screw and then tighten both screws. The installed card should appear as in the diagram below.



Connect the Ribbon Cable

Connect one end of the wide 16-pin ribbon cable to the card and the other to a connector on the RFX Card labeled "Analog In", which is on the lower right side of the card. **BOTH** ends of the cable should be connected. **The cable only connects one way so you shouldn't have any problems.** Be sure not to disconnect any other cables in the unit.

Reassembly

1. Check for any loose cables or loose screws inside.
2. Take the top cover and tilt down the front edge. Carefully insert the front edge of the top panel between the front panel and the top of the metal enclosure. Next lay the top cover down flat on top of the enclosure.
3. Make sure all the screw holes line up and reinstall the seven screws. The screws are all the same.

Power On

At this point, the installation is almost finished. The Ultra should boot up normally when power is applied. It does? Great! During the boot-up process, watch for the display, "Input Option Card Installed". This verifies that EOS recognizes the Analog Input card.

Problems?

If the unit doesn't power up normally or doesn't show the "Input Option Card Installed" display, disconnect power immediately and try the following:

- Are you running EOS version 4.0 (or higher) software? You should be.
- Open the unit, and verify all cable connections.
- Try returning the unit to its original configuration.

If all else fails, call E-MU Customer Service at (831) 438-1921. Telephone support hours are 8:00-5:00 PST, Monday through Friday.



E-MU / ENSONIQ U.S.A.
P.O. BOX 660015
SCOTTS VALLEY, CA USA
95067-0015
TELEPHONE: 831-438-1921
FAX: 831-438-8612

EUROPE, AFRICA, MIDDLE EAST
E-MU / ENSONIQ
SUITE 6, ADAM FERGUSON HOUSE
ESKMILLS INDUSTRIAL PARK
MUSSELBURGH, EAST LOTHIAN
SCOTLAND, EH21 7PQ
TELEPHONE: +44 (0) 131-653-6556
FAX: +44 (0) 131-665-0473