

Dear RT-1701 customer,

Congratulations for purchasing the EFFEXX RT-1701 Multi-FX module. This module adds deep space, liveness and unheard sonic adventures to your sophisticated eurorack system. Please refer to the installation instructions on the back of this page or check the owner's manual at the [radikaltechnologies.com](http://www.radikaltechnologies.com) website for the installation procedure of this module. The module starts up in manual-mode as soon as your case sends some current into the module. The mode LED lights up green to indicate this mode. This mode should always be used, when you are tweaking your effect sound. You can push the mode button to return to the manual-mode whenever you want.



The EFFEXX Multi FX Processor is a full stereo module. However, you can use both inputs or only one of them for mono signals. In that case the mono signal is fed into both inputs automatically. The white labelled parameters can be accessed direct by turning the knobs. Hold the SHIFT-button while fiddling to reach the blue labelled and all the reverb (REV:) parameters. The EFFEXX has two main effects FX-1 and FX-2, an additional Reverb processor (blue labels), an input stage with overdrive and an post FX EQ. With the two upper knobs in the middle, you can control the effect level of FX-1 and FX-2, the "REVERB" knob controls the reverb level, and while holding the Mode/Shift-button the two FX-Select-knobs load the effect algorithms for FX-1 and FX-2. For all parameter changes, the LED ring assists you by visualizing the values. The algorithm selection is indicated by LED labels. As soon as you start adjusting the Input Gain knob, the LED ring functions as a level meter. The level meter checks input overloads and output overloads as well. If the whole LED ring turns red, you should also check for the feedback paths.

Further informations, detailed descriptions of the FX algorithms and everything about the snapshot crossfading can be found inside the owner's manual at our website:

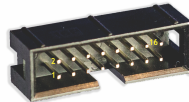
<http://www.radikaltechnologies.com/index.php/rt-1701-effexx-multi-fx-processor/>

Installation of the EFFEXX inside your eurorack housing:

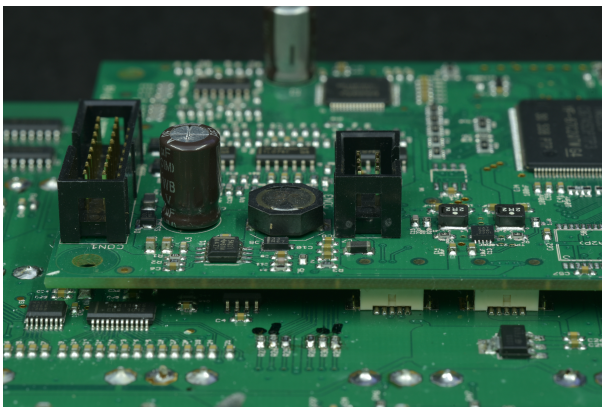
Before going into the detailed consideration of the RT-1701 features, we first look at the installation in the eurorack housing. Before you begin installing the module, you should disconnect the power plug or the power supply.

Next, you will need to measure the power requirements for all modules installed in the enclosure plus the new EFFEXX module (12V 250mA, -12V 80mA). To estimate the current consumption, simply sum positive currents of all modules and then all the modules negative currents. The power requirement of all modules should be below the specifications of the housing power supply.

The RT-1701 module consists of two boards, which must be placed on top of each other. The smaller board is the DSP board, the larger carries the controls and is screwed to the front plate. Before you connect the module or install it in a Eurorack housing, you should check the correct position of the DSP board. Make sure that all circuit board connectors are straight and have a firm hold.



In the eurorack world a 16-pin IDC connector system has prevailed. In the illustration above you see a typical 16-pin box connector plug, but unfortunately it is not used by all manufacturers. The good thing about such a plug is that you can connect the IDC sockets of a flat ribbon cable only in one direction with the plug. IDC sockets have a "nose", which must be inserted into the box connector as seen above - and of course this only works with correct alignment. But even more important - the delicate pins of this plug connection are protected against mechanical loads with the help of the box. On "bended" follows quickly "break", if one tries to bend the pins into shape multiple times.



Our ribbon cable has an interference suppression filter that has been insulated with a blue shrink tube. Please take the enclosed ribbon cable and plug it into the 16-pin socket of the DSP board. The cable end should be inserted with the interference suppression filter on the board side. The 16-pin socket is easy to recognize. Make sure that the DSP board is not exposed to one-sided pressure while inserting the post jig into the tub plug, otherwise the back-side board connector can leverage. With slight pressure on the DSP PCB, the plugs will snap right back into place.

Now take a look at the power supply bus board of the modular system and the connection cable of the new module. The first wire is marked red in the supplied flat ribbon cable. On the bus board of a eurorack housing, the lowest two contacts carry -12V. Please ensure that the first wire with the red marking is always connected to the -12 volt side of the socket. Also make sure that the cable is not pushed to the right, left or up or down. Unfortunately, most bus systems do not have any polarity protection.



Once you have connected the cable, you can place the module in the desired position and install it with the enclosed screws and washers. Please use the enclosed plastic washers - this will largely prevent damage to the paintwork.

Now you can turn on the power. At the same time, a few of the LEDs should light up. If this is not the case after two seconds, interrupt the current immediately and search for the error. As a rule, however, the FX-module will now work and you can focus on the operation.