

Tetra MAPS Euro-Rack Installation

Euro Rack Mounting

The Tetra MAPS Euro-Rack unit is 3U high by 42 HP (one-half Euro rack) wide. Four mounting slots are provided at each corner of the plate to accommodate M2.5 or M3 screw mounting onto Euro rack rails.

(With some modification, the unit may be table-top mounted into an ABS enclosure, purchased separately.)

Jack Connections

The Euro-Rack MAPS uses 1/8 inch phone jacks suited for interfacing with mini jack modular synthesizer systems.

Ethernet Connectivity and MIDI

An Ethernet “OSC LAN” connection is accessible from the front and top-rear of the unit. Plug a CAT5 Ethernet cable into this jack to make use of computer networked Open Sound Control.

A secondary MIDI output is located at the top of the unit, behind the panel. This port sends MIDI data on channels 17-32 and is referred to in the users’ manual as “MIDI OUT2”.

Power Connection

A power supply is NOT provided for the Euro Rack Tetra MAPS. Power must be supplied by your modular system’s power supply. An appropriate power connector is required to do this.

The Euro Rack version is designed to run off of a +12VDC power connection made to the “Doepfer” 10-pin power connect header located at the bottom right-hand corner of the main circuit board. A 0.1-inch pin space socket connector is required, that connects pins 1 & 2 to +12V and pins 3 & 4 (or other ground pins) to ground. Pins 1 & 2 are at the top. The power supply must be able to supply up to 300mA for the sequencer to run properly.

Alternatively, a 9VDC @ 300mA power adapter may be plugged into the 2.1mm coax power connector located at the top of the unit, behind the panel. Center pin is positive.

Power Connection details as noted in Appendix F

Coax Connect (located at the top).....	9VDC @ 300mA, center pin positive
JP21 “Doepfer”	pins 1,2 = +12VDC
	pins 3,4,5,6,7,8 = GND (pins 9,10 n/c)
Power Consumption	5 Watts or 275mA

WARNING: The manufacture’s warrantee is void if any type of power supply that does NOT conform to the preceding power specifications is used.

Tetra MAPS 5U Installation

Mounting

The Tetra MAPS 5U module is 8.75 inches high by 5.25 inches (3U) wide. Two sets of mounting holes are provided at each corner of the plate to accommodate the MOTM and MOOG / MOON formats. The larger holes are used for MOTM format mounting.

(The 3U panel width is slightly smaller than a MOOG panel and therefore may be accommodated into a MOOG format modular system. Note that the Tetra MAPS 5U may also be accommodated in other similar modular systems such as: Dotcom, Modcan B and others.)

Power Connection

A power supply is NOT provided. Power must be supplied by your modular system's power supply. An appropriate power connector is required to do this.

The 5U version is designed to run off of a +15 VDC power connection made to either the "Doepfer" 10-pin, or the 3-pin "Modcan" power connect headers, located at the bottom right-hand corner of the main circuit board. (The Doepfer connection header is 0.1 inch pin spacing. The Modcan connection header is 0.156 inch pin spacing.)

An adapter from the Modcan connection is provided to interface with a (MOTM) power supply. If the following pin connections are compatible with your synthesizer, use this adapter header to plug into your synthesizer's power harness.

Adapter Power Connection pin out:

Pin 1.....	+15 VDC
Pin 2.....	GND
Pin 3.....	GND (N/C)
Pin 4.....	-V (N/C)

The synthesizer power supply must be able to supply up to 300mA for the sequencer to run properly.

Alternatively, a 9VDC @ 300mA power adapter may be plugged into the 2.1mm coax power connector located at the top of the unit, behind the panel. Center pin is positive.

Power Connection details as noted in Appendix F

JP20 "Modcan"	pin 1 = +15VDC, pin 3 = GND
JP21 "Doepfer"	pins 1,2 = +15VDC
.....	pins 3,4,5,6,7,8 = GND (pins 9,10 n/c)
Power Consumption	5 Watts or 275mA

WARNING: The manufacture's warrantee is void if any type of power supply that does NOT conform to the preceding power specifications is used.

Jack Connections

The 5U MAPS is built using Switchcraft ¼ inch jacks, suited for ¼ inch phone jack music systems. Some of the jacks use a Tip/Ring/Sleeve (stereo) configuration that may be accessed using a stereo jack. A mixer “insert” cable may be used to break out the tip and ring signals into two mono jacks. The MAPS stereo jacks are as follows:

CV/GATE 3 and 4	tip is the Control Voltage output / ring is the Gate output
CV IN	tip is the Control Voltage input
(A Foot Expression Pedal may be directly plugged into the CV IN jack to act as a control voltage.)	
CLOCK OUT/IN	tip is the Clock output / ring is the Clock input

Ethernet Connectivity and MIDI

An Ethernet “OSC LAN” connection is accessible from the top of the unit, behind the panel. Plug a CAT5 Ethernet cable into this jack to make use of computer networked Open Sound Control.

A secondary MIDI output is located at the top of the unit, behind the panel. This port sends MIDI data on channels 17-32 and is referenced as “MIDI OUT2” in the users’ manual.