

# Q163 Eurorack Adapter Module

Dec 2020

The Q163 Eurorack adapter module provides mounting space, power distribution, and a patch bay for using Eurorack modules in a 5U Synthesizers.com system.

The Q163 panel consumes four 5U spaces and provides an opening for 35HP of Eurorack modules. An array of slotted holes at the top and bottom provide mounting for modules of various widths and hole spacings. Thirteen patch points convert Eurorack's 3.5mm connectors to the 1/4" standard used in 5U systems.

Eurorack +12 and -12 volt power rails are generated from the 5U system's +/- 15 volt rails. The 5 volt power rail is also included. Seven Eurorack power headers are available for module power. LED's indicate the status of the Eurorack power.

Three blank panels (4HP, 6HP and 10HP) and 12 mounting screws are included.



## Q163 Eurorack Adapter Module Specifications

**Panel Size:** Quad Width 8.5"w x 8.75" 5U (Moog Unit Format).

**Eurorack Spaces:** 35HP with M3 mounting holes on .2" (5.08mm) centers. 12 M3 screws are provided.

**Jack Conversion:** 13 total, 3.5mm to 1/4.

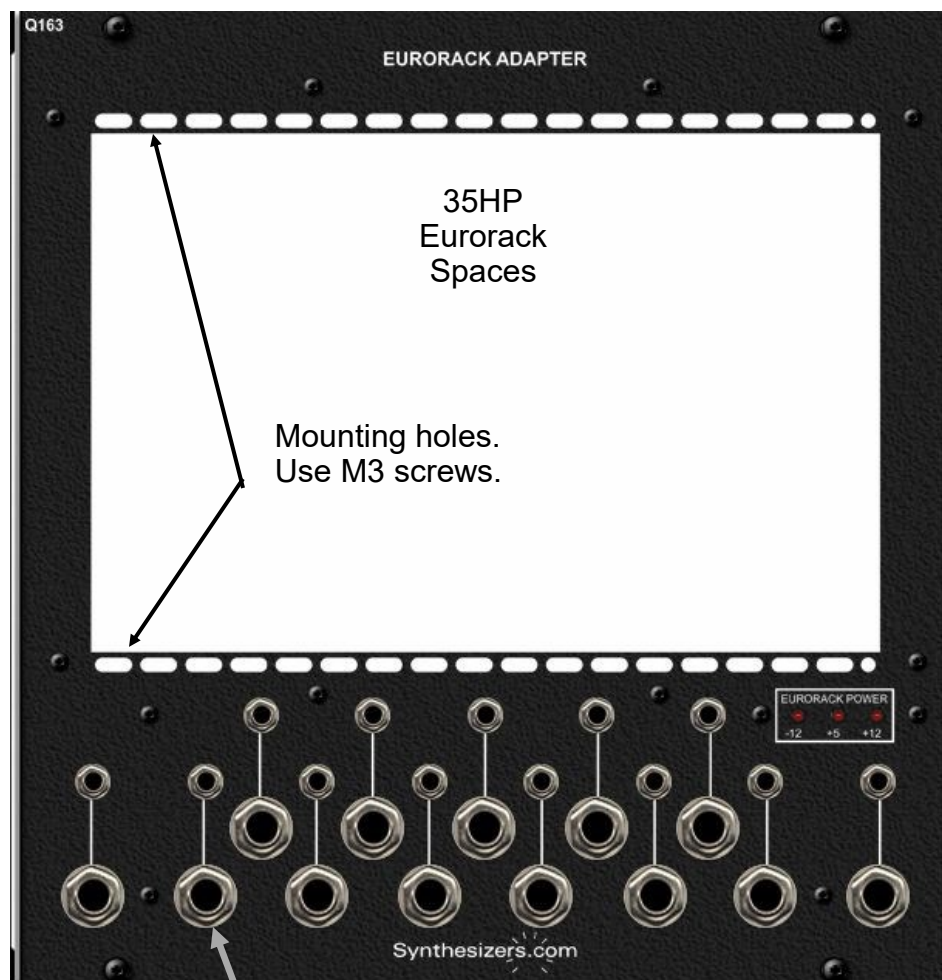
**Power Input:** +15V, -15V, +5V Synthesizers.com standard 6-pin MTA.

**Power Output:** +12V @ 1000ma, -12V @ 1000ma, +5V @ power supply. 7 Eurorack 16-pin headers.

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## Q163 Panel Layout

The Q163 panel provides spaces for 35HP of Eurorack modules. Mounting holes along the top and bottom of the opening land on .2" (5.08mm) centers. Use M3 screws for mounting (provided).



3.5mm to 1/4" jack conversion.  
13 total.

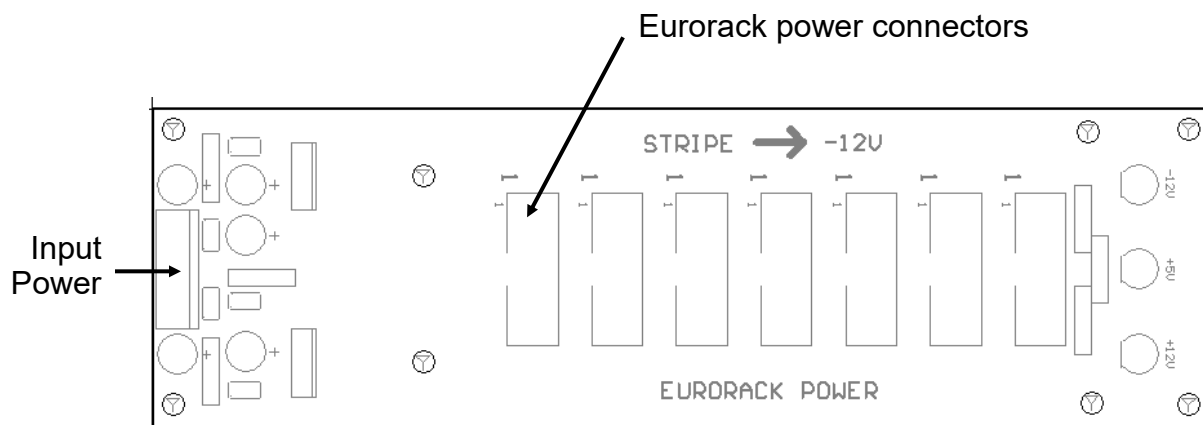
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## Q163 Printed Circuit Board Layout

The Q163 PCB converts the +/-15 volt power rails from a standard 5U Synthesizers.com system to +/-12 volts used by Eurorack modules. There are 7 Eurorack power connectors provided. Power cables can be 10-pin or 16-pin depending on what your modules need.

Notice the "1" indicator for each connector. Pin 1 typically aligns with the red stripe on a Eurorack power cable. Incorrect connection may damage your module and/or the Q163 board. If your modules or cables are not typical, refer to the pinouts below for proper connection.

There is a limit to the amount of current that can be drawn from the Q163 power regulators. Check the manufacturers specifications for the Eurorack modules against the maximum current capacity of the Q163 board shown on page 1 of this data sheet. The more current drawn, the more heat the regulators will produce.



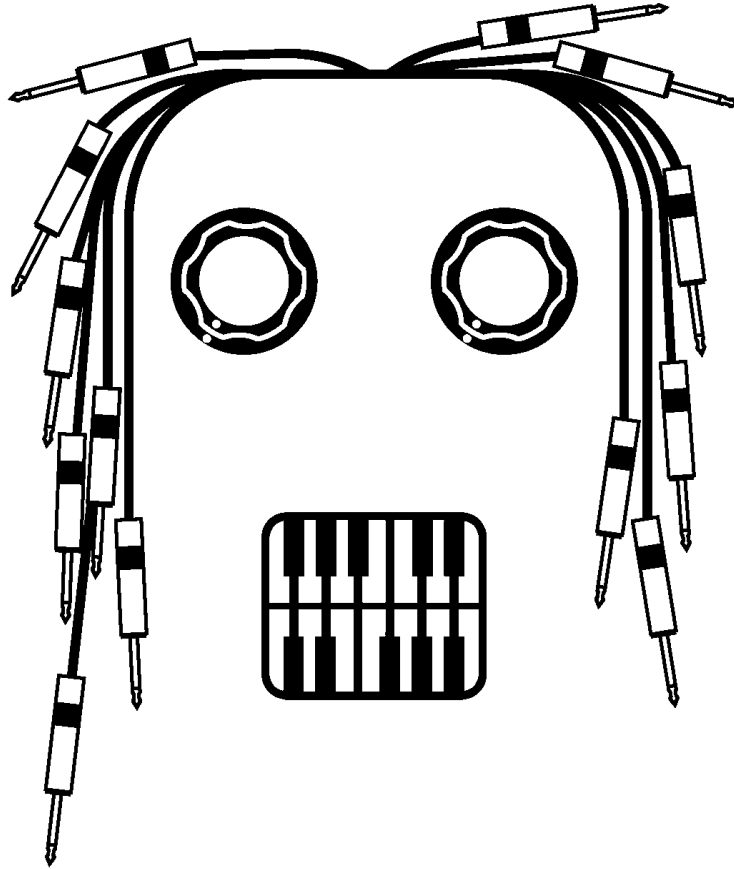
5U/Synthesizers.com  
Power Pinout  
6-pin .1 MTA connector

1 = +15 volts  
2 = Key (pin removed)  
3 = +5 volts  
4 = Ground  
5 = -15 volts  
6 = unused

Eurorack Power Pinout  
10 or 16-pin header connector

1,2 = -12 volts  
3,4,5,6,7,8 Ground  
9,10 = +12 volts  
11,12 = +5 volts  
13,14 = CV  
15,16 = Gate

# Patcher Jack



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