m701 Analog I/O Option Module Field Installation

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Document Revision History

Rev	Page	Change	Date	Initials
A		Initial Release	07/25/2025	NAM

1 Assembly Steps

1.1 m701 Analog I/O Card Installation

Materials:

m701-ADC

Part #	Description	QTY
AT242	m701 8 Channel ADC PCBA	1
E790	m701 ADC Option Panel	1
H165	#4-40X 3/16 X 5/16 w/ loctite	2

m701-DAC

Part #	Description	QTY
AT243	m701 8 Channel DAC PCBA	1
E791	m701 DAC Option Panel	1
H165	#4-40X 3/16 X 5/16 w/ loctite	2

m701-MP4

Part #	Description	QTY
AT248	m701 4 Ch Mic Preamp PCBA	1
E792	m701 MIC-PRE Panel	1
H165	#4-40X 3/16 X 5/16 w/ loctite	2
H591	DB25 Dust Cap	1
WA235	14 Position 4.0" Ribbon Cable	1

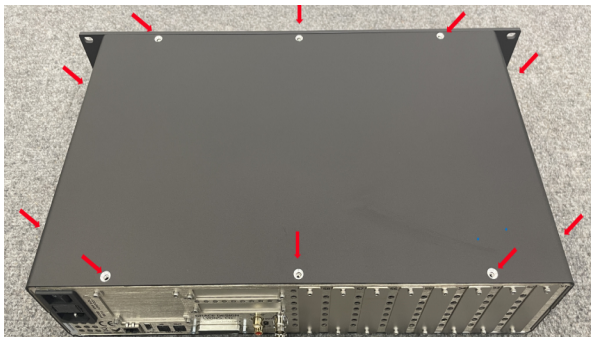
Tools:

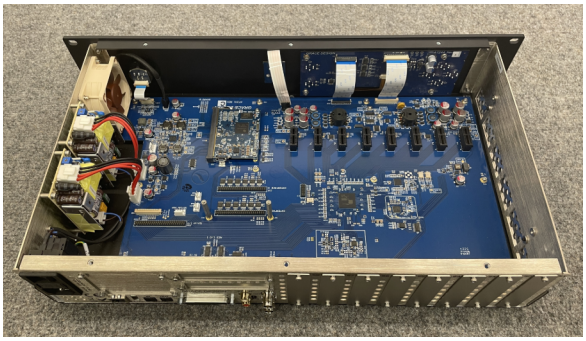
- #2 Phillips Screwdriver
- 3/32” Allen Wrench
- 3/16” Nut Driver

Procedure:

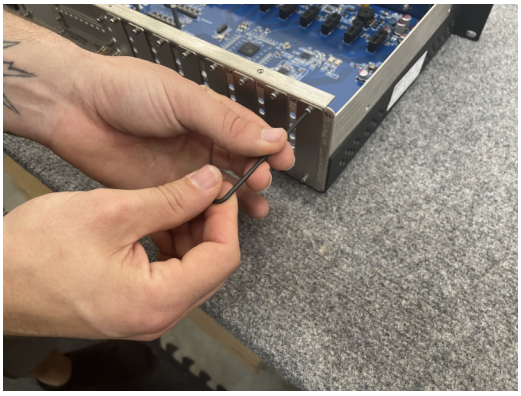
1. Place the m701 on a workbench and remove the top cover. There are (10) #2 Phillips screws on the top and sides.

   Circuit boards can be DAMAGED by static electricity! Be sure to ground yourself before handling or touching the circuit boards!

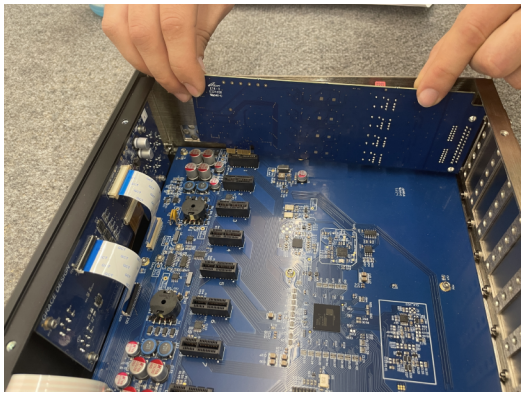




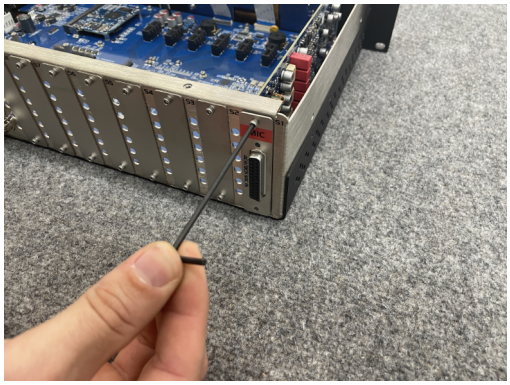
2. Remove the option cover plate(s). The cover plates are held on by two 3/32” Allen screws. Retain these screws for the installation.

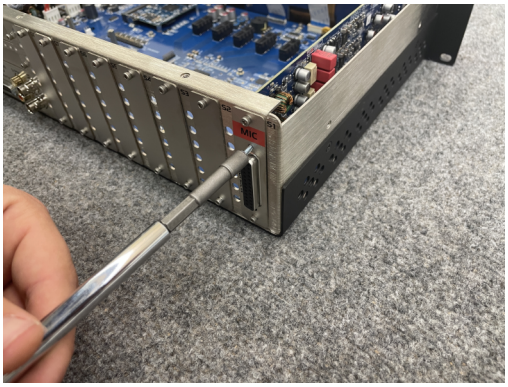


3. Install the I/O Card by inserting it from the inside of the unit and tilting the DB25 input connector down first, then aligning the card edge connector (PCI-E slot). When aligned, press down on the back of the card to seat the connector. Repeat for any other cards to install. *If installing more than one m701-MP4 refer to step 1.2.



4. Install the I/O Card cover plate with the two H035 3/32” Allen screws that were previously removed and two H165 3/16” hex standoffs. The H165s will have thread locking compound pre-applied.

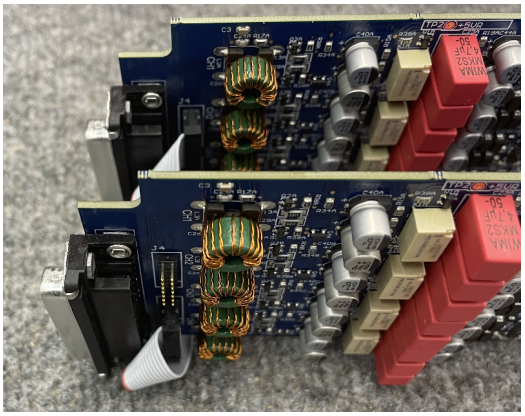


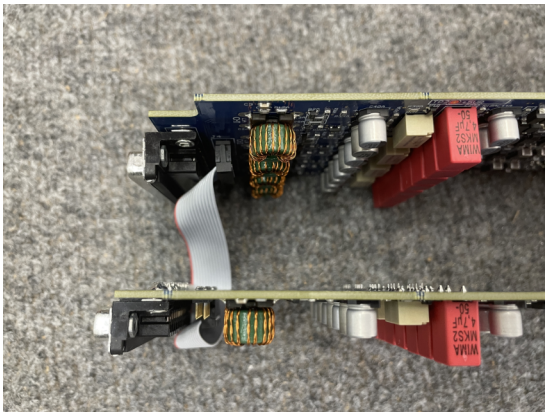


5. Re-install the top cover.

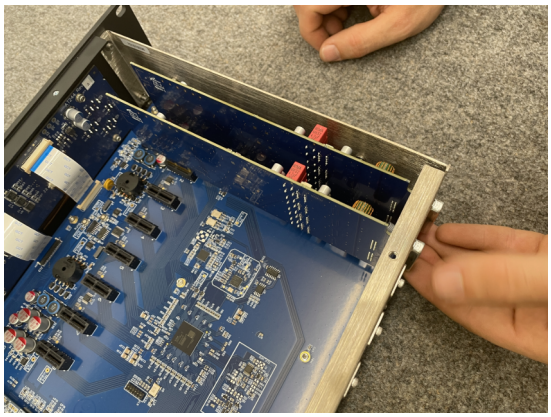
1.2 Installing m701-MP4 as a pair

1. If two MP4 Mic Pre cards are installed then the modules can be linked together so that all 8 channels appear on the lower slot number card.
2. Connect WA235 cable to J3 of the lower slot number card to J4 of the next and route as shown below.





3. Install the I/O Cards as a pair by inserting it from the inside of the unit and tilting the DB25 input connector down first, then aligning the card edge connector (PCI-E slot). When aligned, press down on the back of the cards to seat the connectors. Repeat for any other cards to install.



4. Install the I/O Card cover plates with the H035 3/32” Allen screws that were previously removed and H165 3/16” hex standoffs. The H165s will have thread locking compound pre-applied. Place the H591 Dust Cap on the higher slot number card.

5. Re-install the top cover.