Corsham Technologies, LLC

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KIM-1 Motherboard Set

Introduction

Thank you for buying our Application and Expansion Motherboards. They provide a way to expand your KIM-1 with additional boards, while maintaining backward compatibility with legacy motherboards that were popular back in the 1970s and 1980s.

The motherboards are very simple designs, so there isn't much to document except for power supply connections.
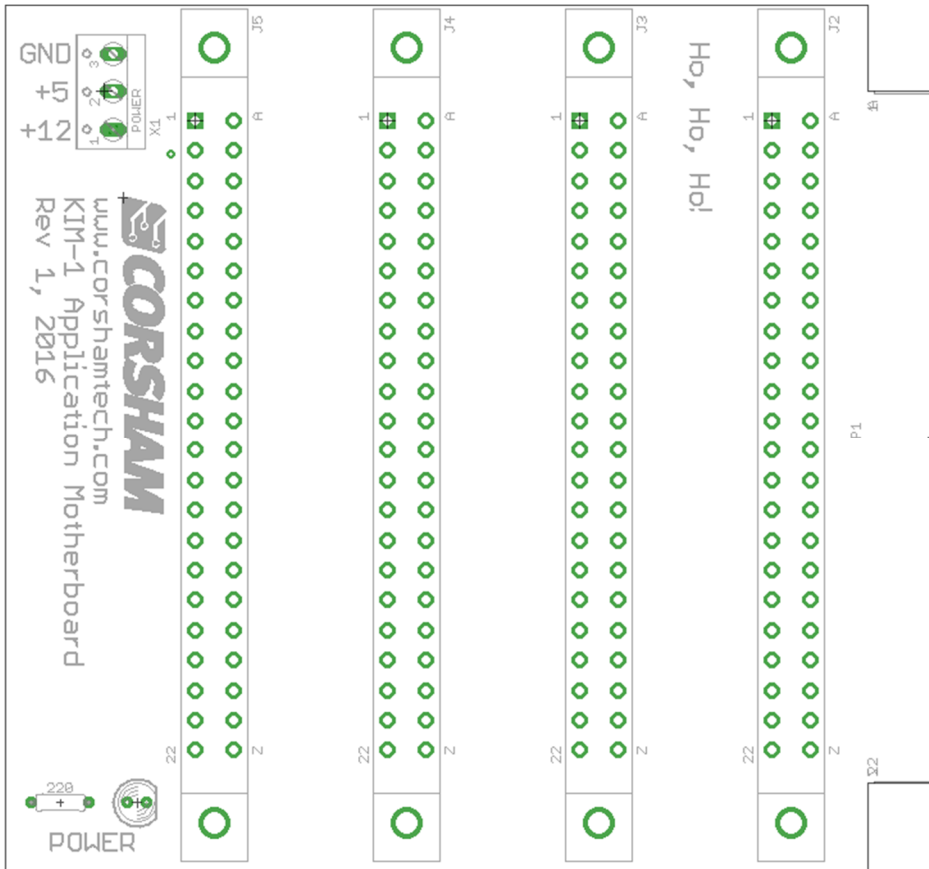
Power Supply Connectors

Application Motherboard

Revision 1 boards are missing the silkscreen text indicating what the three screw terminals are for, so please reference the diagram including.

Name	Application Connector Pin
GND	1
+5	A
+12	N

The POWER LED lights when +5 is applied. Note that the LED can be driven by +5 being supplied on either the Expansion or Application connector.
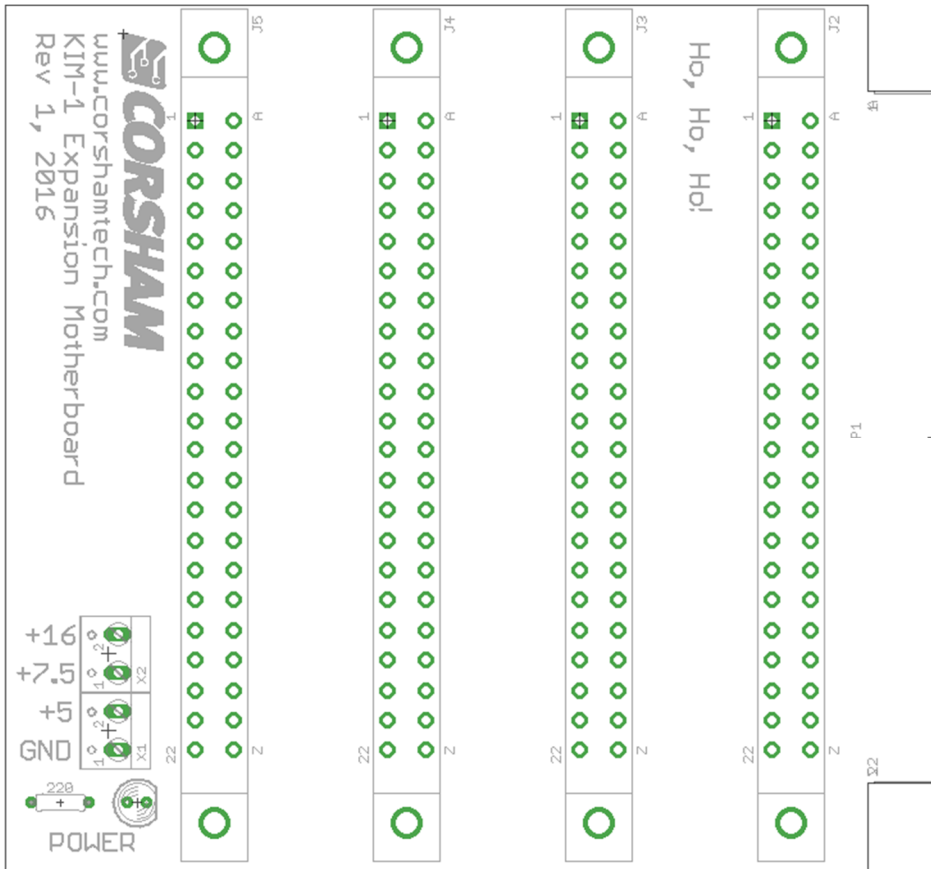
Expansion Motherboard

Revision 1 boards are missing the silkscreen text indicating what the three screw terminals are for, so please reference the diagram including.

Name	Expansion Connector Pin
+16	X – Does not connect to KIM-1
+7.5	18 – Does not connect to KIM-1
+5	21
GND	22

The POWER LED lights when +5 is applied. Note that the LED can be driven by +5 being supplied on either the Expansion or Application connector.

The following text appears within the board illustration:

Sl CORSHAM
www.corshamtech.com
KIM-1 Expansion Motherboard
Rev 1, 2016

Ho, Ho, Ho!

+16
+7.5
+5
GND

220

POWER

Ho, Ho, Ho!

The board was laid out on Christmas day, 2016.

Expand!

Now that you've got a motherboard, feel free to add more and more boards to your KIM-1 system to expand its capabilities.

My KIM is calling me…

Bob Applegate
January 2017

Revision History

Version	Changes
1	Initial version. Missing silkscreen labels

Errata

Rev 1 boards: The silkscreen is missing, so there are no indications where to connect the power supplies. The boards are fully functional and are only missing labels.

Parts List

Part	Number	Description
EXP_PCB	1	Expansion MB Printed Circuit Board (Corsham Tech)
APP_PCB	1	Application MB Printed Circuit Board (Corsham Tech)
JP1	8	22/44 pin edge connector
R1	2	220 ohm
LED	2	5 mm LED
SW2	1	1 position DIP switch
???	2	2 position screw terminal
???	1	3 position screw terminal