

G4-Series Products

COPYRIGHT

Copyright 1990-92—Octagon Systems Corporation. All rights reserved. However, any part of this document may be reproduced provided that Octagon Systems is cited as the source.

The contents of this document and the specifications herein may change without notice.

TRADEMARKS

Octagon Systems™ and the Octagon logo are trademarks of Octagon Systems.

NOTICE TO USER

The information contained in this document is believed to be correct. However, Octagon assumes no responsibility for any of the circuits described herein, conveys no license under any patent or other right and makes no representations that the circuits are free from patent infringement. Octagon makes no representation or warranty that such applications will be suitable for the use specified without further testing or modification.

Octagon Systems general policy does not recommend the use of its products in life support applications where the failure or malfunction of a component may directly threaten life or injury. It is a Condition of Sale that the user of Octagon products in life support applications assumes all the risk of such use and indemnifies Octagon against all damages.



OCTAGON SYSTEMS®

6510 W. 91st Avenue
Westminster, CO 80030
Doc Order #02390 Rev 1

Tech Support : 303-426-4521

DESCRIPTION

The G4-series of products include a G4 ORI-24 adapter card, G4 PB-series module mounting racks, and G4 AC or DC I/O modules. G4 products perform the same as industry standard opto-isolated products, except the size is substantially smaller to accommodate applications where space is restricted.

PB-SERIES RACKS

PB racks are opto-isolated modules racks with 8, 16, or 24 module positions. The G4 PB-08 rack accommodates 8 I/O modules, the G4 PB-16 rack accommodates 16 I/O modules, and the G4 PB-24 rack accommodates 24 I/O modules. Refer to your CPU or microcontroller manual to determine the number of channels your card can use.

G4-SERIES I/O MODULES

G4 I/O modules are available in AC or DC input and output configurations. These modules can be used to control motors, solenoids, heaters, transformers, lamps and fans, etc. The following modules are available:

Input Modules

G4 IAC5	90-140 VAC
G4 IAC5A	180-280 VAC
G4 IDC5	10-32 VDC

Output Modules

G4 OAC5	12-140 VAC at 3A
G4 OAC5A	24-280 VAC at 3A
G4 ODC5	5-60 VDC at 3A

G4 I/O modules plug directly into G4 PB racks.

G4-Series Products

G4 ORI-24

The G4 ORI-24 is a small adapter card designed to conveniently interface an Octagon CPU card or microcontroller to a G4 PB-series module mounting rack. A 26-conductor ribbon cable is attached on one side of the G4 ORI-24 to interface it to a CPU card or microcontroller. A 50-conductor ribbon cable is attached on the other side of the G4 ORI-24 to interface it to a G4 PB-series module mounting rack. Refer to **Figure A** for more detail.

To install a G4 ORI-24:

1. Locate the G4 ORI-24's P2 connector on the 26-conductor ribbon cable.
2. Insert P2 into the I/O port on your CPU card or microcontroller.
3. Locate the G4 ORI-24's P1 connector on the 50-conductor ribbon cable.
4. Insert P1 into the G4 PB module mounting rack.
5. Connect 5V power to the G4 PB module mounting rack.

G4 ORI-24 Technical Specifications:

Connectors:

P1— 50-pin female connector, Ansley #609-5030. Interfaces to G4 PB-series mounting rack.

P2— 26-pin male connector, Ansley #609-2641. Interfaces to I/O port on CPU card or microcontroller.

Size:

2.85" x 1.25"

G4 COMPATIBILITY

G4 products are compatible with the following Octagon cards:

832
7100
8410, 8420
9500, 9510
All SBS series microcontrollers

G4-Series Products

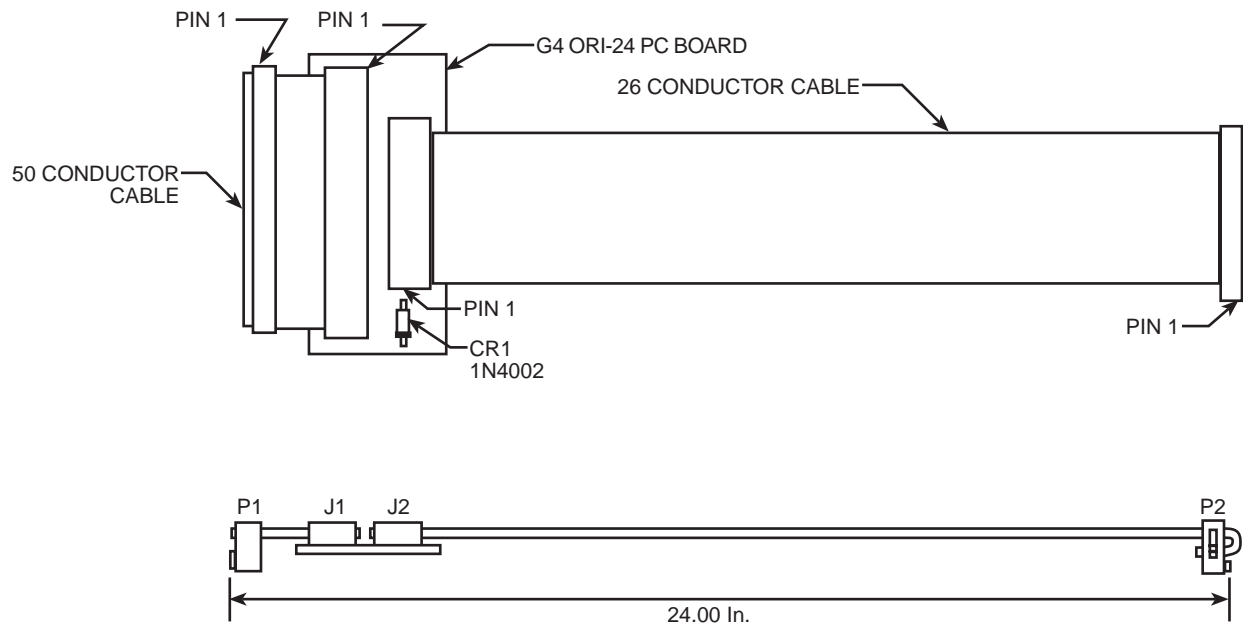
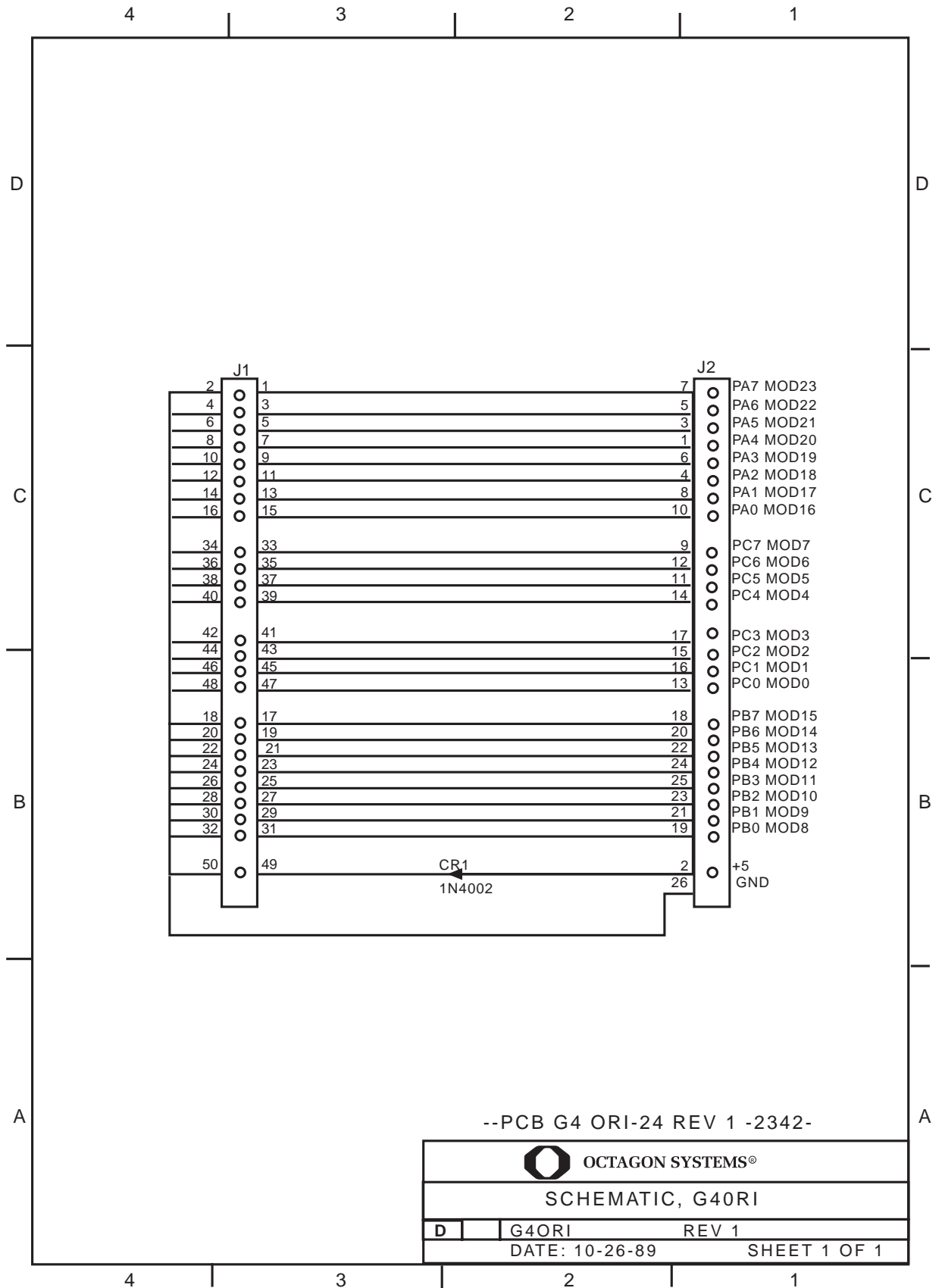


Figure A — G4 ORI-24 with cables

G4-Series Products



--PCB G4 ORI-24 REV 1 -2342-



OCTAGON SYSTEMS®

SCHEMATIC, G4ORI

D	G4ORI	REV 1
DATE: 10-26-89		SHEET 1 OF 1