

GFK-0552C
August 1995

VME Option Kit

This instruction sheet provides the information for installation of the **VME Option Kit**, catalog number IC697ACC715, which allows you to add a J2 VME backplane (which has P2 connectors) to an IC697 PLC rack.

Contents of VME Option Kit

Description	Qty
Connector jumper	6
M2.5 threaded strip	2
Aluminum spacer	4
VME slot filler	4
Phillips screws, M2.5 x 8	24
Spring lock washers	24
Hex nuts, M2.5	12
Power cable	1
Ribbon cable connector mounting bracket	6
Manual, <i>User's Guide to Integration of 3rd Party VME Modules</i>	1

Note

This kit **does not** contain a J2 backplane. This must be purchased from a 3rd party.

You will need these items

1. Phillips head screwdriver
2. A five-slot or nine-slot IC697 rack with one of the following catalog numbers:
IC697CHS750, five-slot rear (panel) mount
IC697CHS790, nine-slot rear (panel) mount
IC697CHS791, nine-slot front (rack) mount
3. A J2 backplane (has P2 connectors)
4. Any VME module that has both a P1 and P2 connector
5. User supplied rack mounting hardware (Qty. 4 - 1 1/4 inch x #10-32 or #12-28 screws).

Follow these steps

1. Unpack and check all of the items in the kit. Verify with the parts list that each item is present.
2. Place the selected rack on its side supported in such a way that it is straight and level.
3. Locate the slot in the rear bottom rail of the rack. Locate one of the threaded metal strips included in the kit. The strips are made to fit the nine-slot racks (IC697CHS790, IC697CHS791) but can be modified to fit the five-slot rack (IC697CHS750).

Slide the threaded strip into the slot in the bottom rail of the rack; it should slide easily. *If you have a five-slot rack*, slide the threaded strip in until it covers the entire length of the rail and snap the excess off at the last threaded hole at the top of the rail.

Note

If your rack has no side access to the lower and middle rail, the side plate must be removed. This is done by removing the screws in the side plate.

In order to mount the J2 backplane, you must remove the rear cover. To do this, remove the 12 screws (6 top and 6 bottom) holding the cover on. After removing the cover, **be sure to reinstall 6 of these screws back into the J1 backplane**. You can discard the rear cover.

4. Locate the slot in the center rail of the rack. Install the threaded strip in the center rail using the same procedure described in step 3. If you removed the rack side plate, you must reinstall it at this time.
5. Plug the standard VME module into the rack in a slot that you will want the J2 backplane to span.
6. In this step you are using the standard VME module to align the J2 backplane. *Gently* plug the middle connector of your VME J2 backplane into the P2 connector of the VME module - be sure that the alignment is correct.

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7. Secure the J2 backplane to the threaded strips using the pan-head screws and lock washers provided in the kit.
8. Plug the power cable provided with the kit into the nine-pin connector on the side of the rack. Connect the ends of the cable to the saddle clamps on the back of the J2 backplane. Make sure that you connect the +5V lead to the saddle clamp marked +5V and the GND lead to the saddle clamp marked GND.
9. If your rack is a panel mount rack (IC697CHS790 or IC697CHS750), you must use the spacers provided in the kit to be sure that the wire-wrap pins used in some J2 backplanes do not come in contact with the mounting panel. The use of spacers will require you to use longer mounting hardware.
10. Jumpers are provided so that, if required, you can configure any slot (except slot 1) of the rack to function as a normal VME slot. Place four of the jumpers on the pins in the backplane for the slot you wish to configure.
11. Blank Slot Fillers (catalog number IC697ACC720) are available that will cover any openings left between standard VME modules and other modules in the rack.

J2 Installation Alternative

- Six J2 connector ribbon cable mounting brackets are included in this kit for use as an alternative to mounting the J2 backplane. A J2 connector attached to a ribbon cable can be mounted on this bracket. This cable provides the external I/O connections to a VME module in an IC697 rack.
- Mount the J2 connector attached to the ribbon cable on the ribbon cable mounting bracket and secure with screws, lock washers and hex nuts provided in the kit.
- Install the ribbon cable mounting bracket loosely at the selected slot location.
- With the VME module plugged into the J2 connector, align the bracket and tighten the mounting screws.