

**IC600RP554**  
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**Ge Series Six 6**  
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Redundant Processor Unit IC600R IC600RP

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TABLE I. FEATURES AND BENEFITS

FEATURES	BENEFITS
Dual I/O chains	Additional Redundancy Capability
Dual RPU power supplies	Additional Reliability
Device Switch card	Permits Transfer of Peripheral Devices
Automatic update when CPU returned to on-line status	Increased Performance
No Special Programming Required	Easy Installation
RPU Fault Tolerant Operation	CPU System Operation Maintained for most RPU Failures
Digital Fault Annunciation	Simplifies Troubleshooting
Alarm Contacts	Separate Annunciation for major or minor faults

Dimensions:	Storage Temperature: -40 <sup>o</sup> to +70 <sup>o</sup> C
Rack Mount: 19.0 x 14.0 x 10.3 (inches) 483x356x261 (mm)	Operating Temperature: 0 <sup>o</sup> to 55 <sup>o</sup> C (at the outside of the rack)
Panel Mount: 20.0 x 14.0 x 10.3 (Inches) 508x356x261 (mm)	Humidity: 5% - 95% (non-condensing)
Weight (with modules): 37 lbs (17Kg)	Power Requirements: 20 V to 32 V dc, 8A maximum.

FIGURE I. SPECIFICATIONS

## INSTALLATION NOTES

Verify with the Program Development Terminal (PDT) that each CPU is equipped with Extended Software Revision 103 or later.

CPU I/O Control modules (IC600CB503A) and Auxiliary I/O Control modules (IC600CB513A) produced after January, 1984 (CPU Serial Number C188-8405-0000 and later), contain enhanced filter circuits. Because of the RPU's ability to monitor and sense externally induced disturbances these enhanced modules should be in CPUs being used in conjunction with an RPU system to improve the reliability of the total system. Inspection of CPU systems used with a RPU system should be made to make sure the proper enhanced modules are contained within the CPUs used.

These desired modules can be identified as follows: I/O Control module IC600CB503A should be labeled Assembly Version R07 or later. Looking at the component side of the module, oriented with the backplane pins to the right, the assembly version label is a white affixed label at the bottom right hand edge of the module. Auxiliary I/O Control module (IC600CB513A) should be labeled Assembly Version R03 or later. Location of the Assembly Version label is approximately the same as the IC600CB503A module above.

If any questions arise concerning the module assembly versions or the extended software version of the CPU, contact PC Field Service at (804) 978-5747.

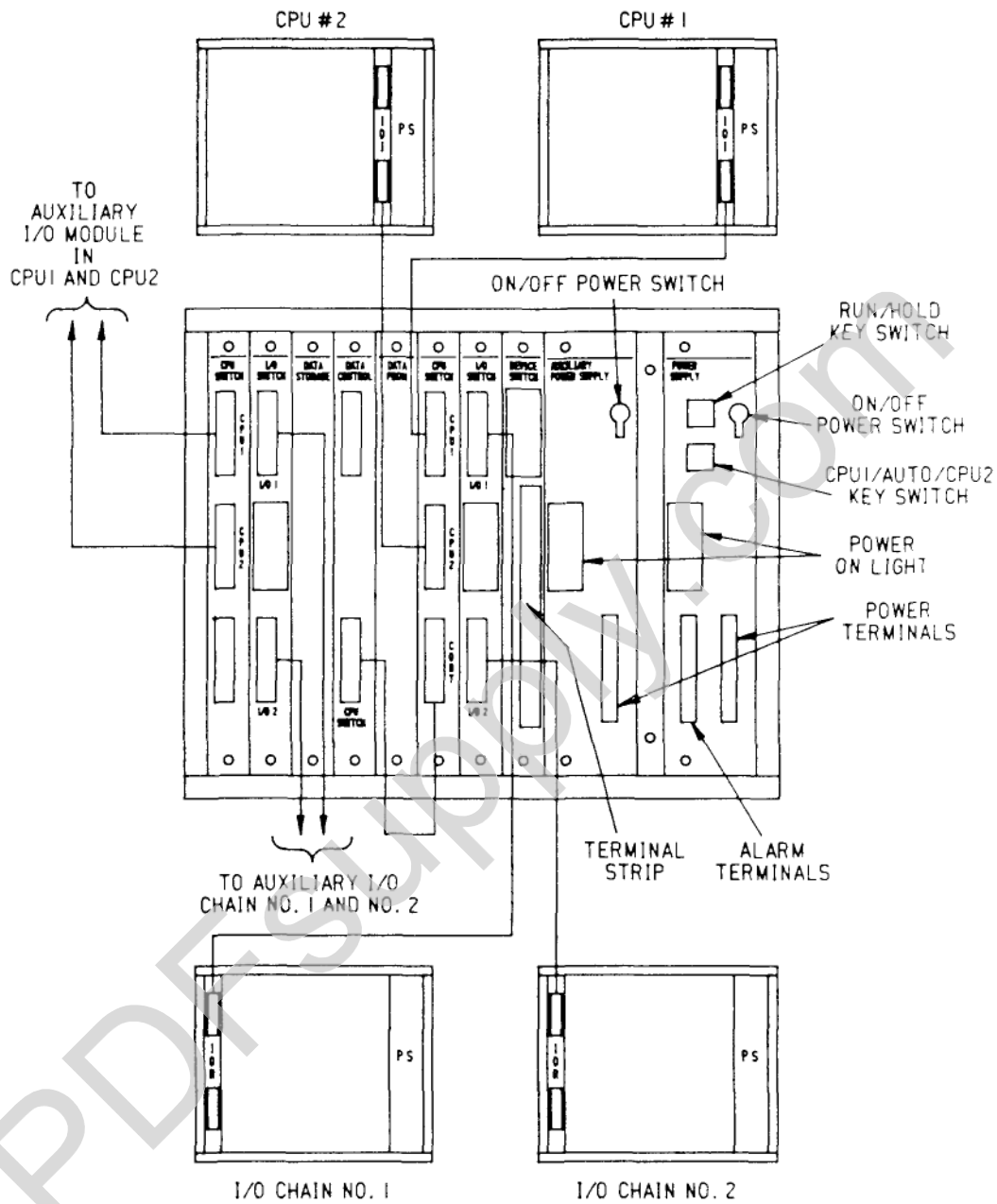


FIGURE 2. RPU RACK CONFIGURATION

### INSTALLATION

This section provides a summary of the procedures described in the Installation section for the various RPU modules. Do not attempt to install the Redundant Processor Unit (RPU) without first reading this material.

1. The RPU can be rack, panel or wall mounted, depending on the orientation of the mounting brackets.

2. If Auxiliary I/O is to be used, insert the second pair of CPU and I/O Switch modules. Use the extraction/insertion tool supplied with the CPU to install these modules in the first and second (respectively) slots from the left.

3. Set Jumper on I/O Switch modules for either single or dual I/O chains.
4. Set jumpers on Device Switch module for data to be transferred.
5. If the Auxiliary Power Supply is to be used, connect the appropriate cables and wires and insert the power supply into the slot adjacent to the Main Supply.
6. Connect the multi-conductor cables from CPU1 and CPU2 I/O Control modules to the appropriate 37-pin connectors on the CPU Switch module.
7. Connect the multi-conductor cable from the I/O Receiver module of the I/O chain to the 37 pin connector marked I/O1 on the I/O Switch module.
8. If Redundant I/O or Auxiliary I/O is used, make similar connections to I/O Chain 2 and Auxiliary I/O chains.
9. Connect the short multi-conductor cable supplied with the RPU between the bottom 37-pin connectors of the Data Control and CPU Switch modules.
10. If peripheral devices are to be switched between CPUs, make the appropriate connections to the 36 point terminal strip on the Device Switch module.
11. Make the following connections to the terminal blocks on the RPU Main and Auxiliary Power Supplies.  
 POS, NEG, GND  
 Alarm-relay contacts (on Main Supply only).
12. Refer to the Installation Notes on page 2.

### ORDERING INFORMATION

Equipment	Catalog Number
RPU AC System	IC600RP551A
RPU DC System	IC600RP554A
* Rack and AC Power Supply	IC600RR551A
* RPU and DC Power Supply	IC600RR554A
* Data Control	IC600RB753A
* Data Storage	IC600RM715A
* Data PROM	IC600RM716A
* I/O Switch	IC600RB750A
* CPU Switch	IC600RB751A
* Device Switch	IC600RB752A
* Cable, Data Control to CPU Switch	IC600WJ001A
**Cable 2 feet	IC600WH002A
**Cable 5 feet	IC600WH005A
**Cable 10 feet	IC600WH010A
Main AC Power Supply	IC600PM507A
Auxiliary AC Power Supply	IC600PM508A
Main 24 V dc Power Supply	IC600PM543A
Auxiliary 24 V dc Power Supply	IC600PM544A

\* Items marked are combined and sold as a basic AC RPU system under catalog number IC600RP551A.

\*\* These cables are used to connect the RPU to CPU No. 2 only. The RPU to CPU No. 1 cable is the standard I/O chain cable IC600WD002A (2 ft), IC600WD005A (5 ft) or IC600WDO10A (10 ft). RPU to I/O chain cables are also standard I/O chain cables.

### CATALOG NUMBER REVISION SUFFIX

The equipment listed above having the catalog numbers shown and the same equipment having a higher alpha suffix is designed for listing by UL for use as auxiliary control devices. The equipment is a direct replacement for equipment having the same catalog number but a lower alpha suffix.

The UL symbol on the nameplate means the product is listed by Underwriters Laboratories Inc. (UL Standard No. 508, Industrial Control Equipment, subsection Electronic Power Conversion Equipment.)

For further information, contact your local GE Fanuc sales office.

**C;E Fanuc Automation North America, Inc., Charlottesville, Virginia**