



Series Six™ Programmable Controllers

GEK-84872B

Redundant Processor Unit Data Control Module

March 1989

General Description

The Data Control Module contains a 16-bit microprocessor (Intel 8086) that controls Redundant Processor Unit (RPU) parallel communications to both the master and backup CPUs while also monitoring and displaying RPU hardware status. The module maintains CPU synchronization and transfer of I/O and register data between master and standby CPUs.

Table 1 summarizes features and benefits of the Data Control module, while Table 2 lists module specifications.

The module provides two 37-pin, D-type connectors; the top connector is not used, but the bottom connector is connected to the CPU Switch Module, also within the RPU, via a multi-pair cable.

Table 1. Features and Benefits

FEATURES	BENEFITS
Powerful 16-bit microprocessor	Centralized control of all RPU Operations
On-board Direct Memory Access capability	Provides an efficient parallel link to the master or backup CPUs

Table 2. Specifications

Dimensions:	Circuit Board: 8.15 x 11.0 x 1.1 (inches) 208 x 280 x 28 (mm) Faceplate : 12.46 x 1.175 (inches) 317 x 30 (mm)
Power Requirements:	5 V dc, 2.0 A (Supplied by RPU power supply)
Storage Temperature:	-40° to +70° c
Operating Temperature:	0° to 55° C (Outside of rack)
Humidity:	5% - 95% (non-condensing)

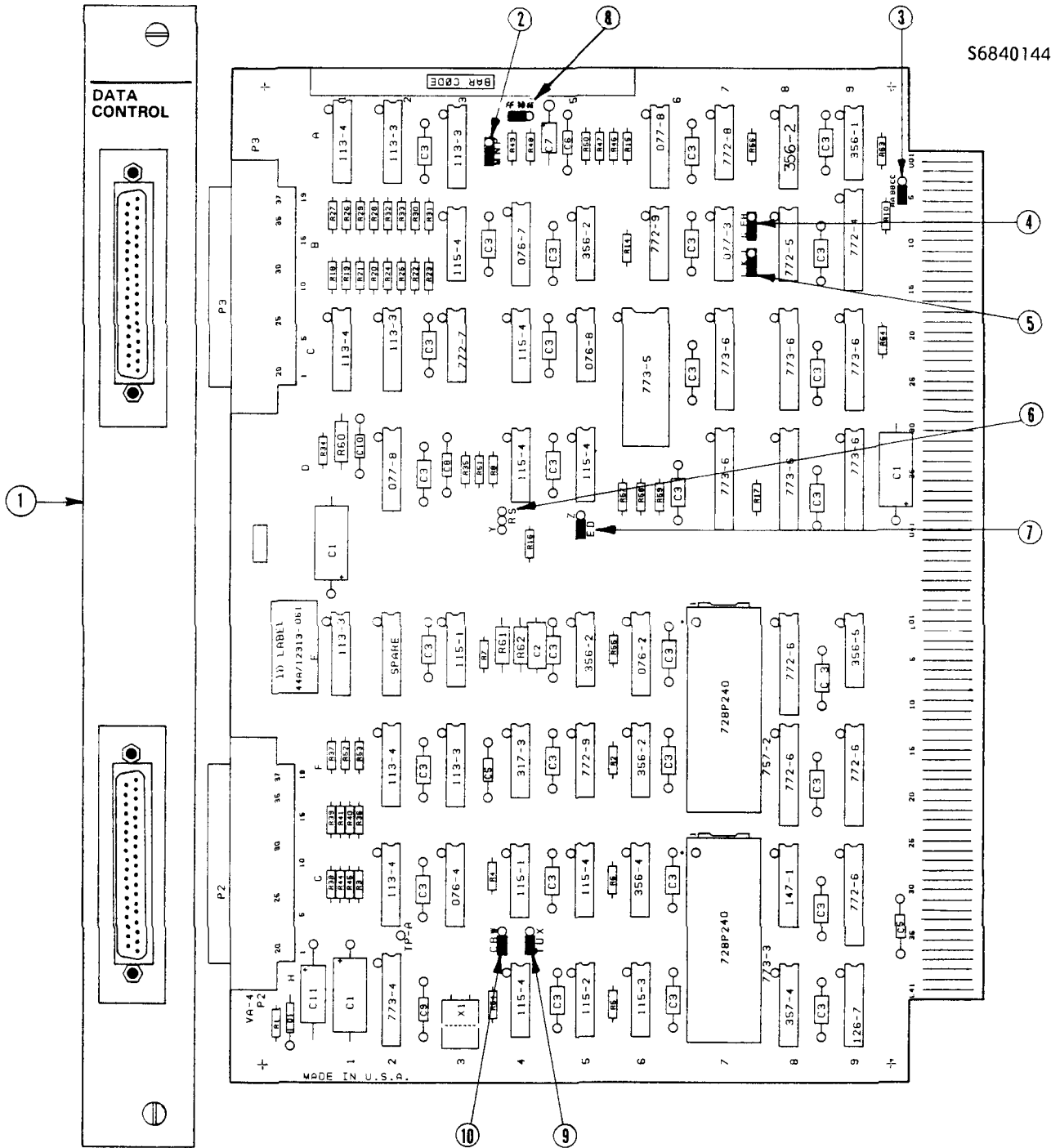


Figure 1. User Items

- | | |
|--|---|
| <ul style="list-style-type: none"> 1. Faceplate. 2. Jumper NP Jumper position set at factory. 3. Jumper AA-BB Jumper position set at factory. 4. Jumper FH Jumper position set at factory. 5. Jumper KL Jumper position set at factory. | <ul style="list-style-type: none"> 6. Jumper YRS No jumper 7. Jumper DE Jumper position set at factory. 8. Jumper DD-EE Jumper position set at factory. 9. Jumper TU Jumper position set at factory. 10. Jumper BC Jumper position set at factory. |
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Installation

Before installing the Data Control module, verify the positions of the factory-installed jumpers as indicated in Figure 1.

The Data Control module must be installed in the fourth slot from the left in the RPU. Use the insertion/extraction tool supplied with the RPU to firmly seat the module. Guide the faceplate over the connectors; then secure the faceplate to the rack by tightening the thumbscrews at the top and bottom.

Connect the short multi-pair Data Control cable supplied with the RPU between the bottom port (37-pin

D connector) on the Data Control module and the bottom port of the CPU Switch module. The connector should be secured using the furnished screws. The top connector on the module is unused.

CAUTION

The Data Control module may be removed or inserted under power as long as the RUN/HOLD switch is set to the HOLD position.

Table 3. Ordering Information

Equipment	Catalog Number
Circuit Board and Faceplate	IC600RB753
Data Control Cable (supplied with RPU)	IC600WJ001
Faceplate	IC600FP700

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 representative.