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Series 90-70
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In Stock! State Logic CPU, 16MHz, 80386 with Flt. Pt IC697C
IC697CS IC697CSE

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GFK-1035C
August 1997

16 MHz, 32-Bit Floating Point, State Logic Central Processing Unit

Supported option modules include all IC697 LAN interface modules, several Coprocessor modules, Bus Controller for IC660/IC661 I/O, Communications modules, and all of the IC697 family of discrete and analog I/O modules.

Operation of this module may be controlled by the three position RUN/STOP switch or remotely by an attached programmer, and AD641 or IC641 (MS-DOS) software. Program and configuration data can be locked through software passwords or manually by the memory protect keyswitch. When the key is in the protected position, program and configuration data cannot be changed. The status of the CPU is indicated by the four green LEDs on the front of the module.

Installation

It is the responsibility of the OEM, system integrator, or end user to properly install the PLC equipment for safe and reliable operation. Product manuals provide detailed information about installation, startup, and proper use of the PLC equipment. The installation manual, shipped with your PLC programming software, describes how to properly install the equipment. If the PLC installation must comply with supported standards, such as FCC or CE Directives, please refer to the *Installation Requirements for Conformance to Standards*, shipped with the PLC programming software, for additional guidelines.

Installation should not be attempted without referring to the applicable hardware installation manual.

- Connect the battery to either of the battery connectors on the module.
- Put toggle switch in the STOP position.
- Put keyswitch in Memory Protection OFF position.
- Make sure rack power is off.
- Install in slot 1 of rack 0. (See Figure 2)
- Turn on power.

The module should power up and blink the top LED. When the diagnostics have completed successfully, the top LED stays on and the second and third LEDs are off.

The fourth LED is off if the keyswitch is in the OFF position. The CPU is now ready to be programmed. After the program has been verified the toggle switch may be moved to the appropriate operation mode position. The LEDs indicate the position of the toggle switch, memory protection status, and the state of the program.

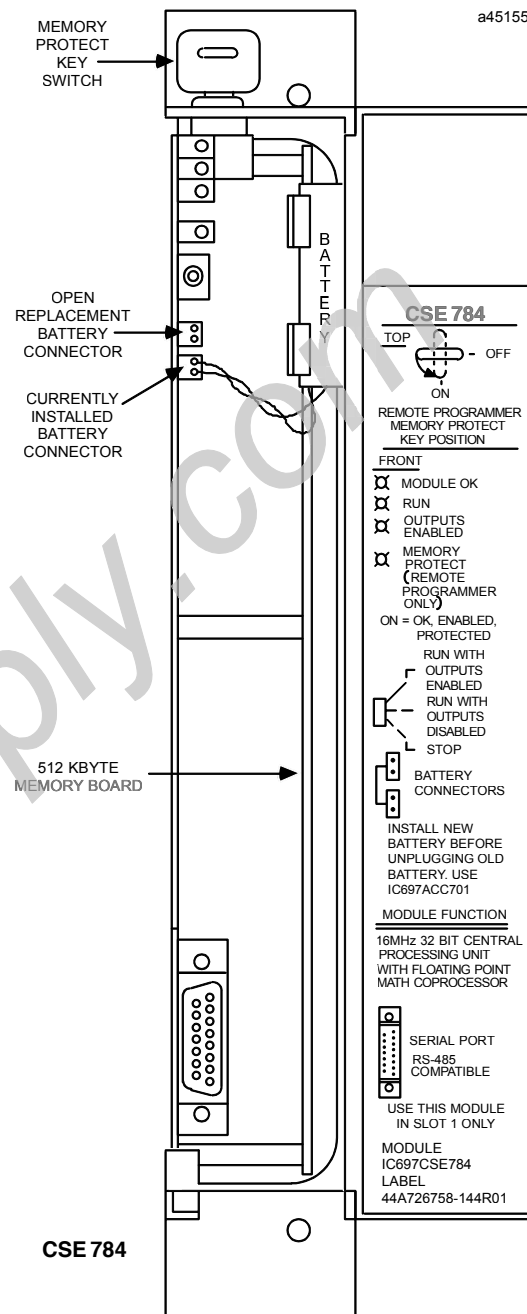


Figure 1. CSE 784 - Location of Major Features

The State Logic operating system is provided on a floppy disk with the CSE 784. The IC641 (MS-DOS) programming software is used to load the operating system into the CSE 784 CPU module. For information on loading the operating system, see the *State Logic Control System User's Manual*.

Serial Port

The 15-pin D-connector provides the connection to an RS-485 compatible serial port as shown in Figure 2.

The serial connection is made from the Standard Serial COM port on the CPU to the serial port on the programming computer, or other serial device, through the RS-422/RS-485 to RS-232 Converter (IC690ACC900) or RS-232 to RS-422 Miniconverter (IC690ACC901).

This serial connection can be made with available cables or you may build cables to fit the needs of your particular application. For more information on serial communications, see Reference 3.

Configuration

The IC697 CPU and I/O system is configured with IC641 (MS-DOS) programming software. There are no DIP switches or jumpers used to configure the system. The CPU verifies the actual module and rack configuration at power-up and periodically during operation. The actual configuration must be the same as the programmed configuration. Deviations are reported to the CPU alarm processor function for configured fault response. Consult Reference 1 for a description of configuration functions.

Batteries

A lithium battery (IC697ACC701) is installed as shown in Figure 1. This battery maintains program and data memory when power is removed and operates the calendar clock. Be sure to install the new battery before removing the old battery. If during power-up diagnostics a low battery is detected the Module OK LED (top) will not stay on. Specific indication of a low battery state is detailed in Reference 2.

Removing a Module

The following instructions should be followed when removing a module from its slot in a rack.

- Grasp the board firmly at the top and bottom of the board cover with your thumbs on the front of the cover and your fingers on the plastic clips on the back of the cover.
- Squeeze the rack clips on the back of the cover with your fingers to disengage the clip from the rack rail and pull the board firmly to remove it from the backplane connector.
- Slide the board along the card guide and remove it from the rack.

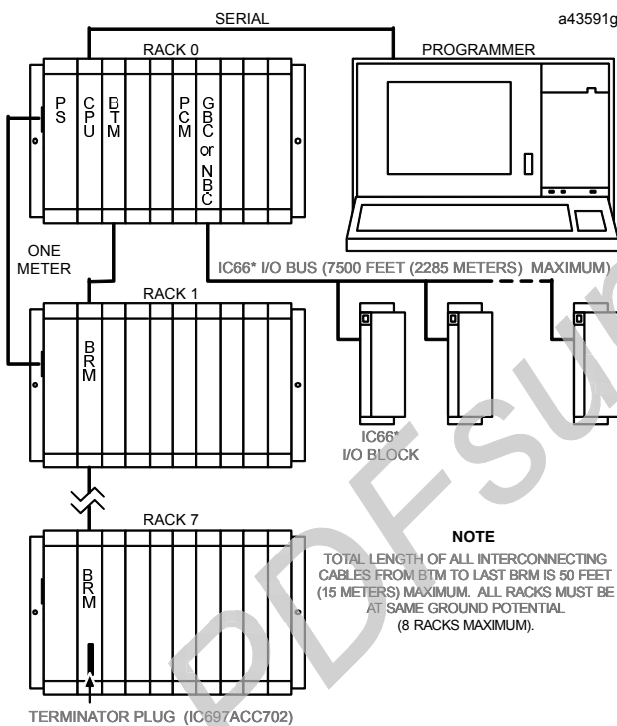


Figure 2. System Configuration, Serial Connection to Programmer

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Table 1. Specifications for IC697CSE784 †

Battery ShelfLife	10 years at 20° C (68° F)
Memory Retention	6 months nominal without applied power
Current required from 5V Bus	1.6 Amps (includes expansion memory)
Time of Day Clock (internal timing) Accuracy	±3.5 seconds per day
Elapsed Time Clock	±.01% maximum
Serial Port	RS422/485compatible,Programmer Serial Attachment
VME	System designed to support the VME standard C.1

† Refer to GFK-0867B, or later for product standards and general specifications.

Table 2. References

Reference	Title
1	ProgrammingSoftwareUser'sManual
2	ProgrammableControllerReferenceManual
3	ProgrammableControllerInstallationManual
4	State Logic Control System User's Manual

Table 3. Ordering Information

Description	Catalog Number
CSE 784, 16 MHz, 32-Bit, Floating Point, State Logic	IC697CSE784
LithiumBattery	IC697ACC701

Note: For Conformal Coat option, or Low Temperature Testing option please consult the factory for price and availability.