

Specifications

Battery: Memory retention	RX3i CPU Lithium Smart Battery, IC695ACC302 (recommended), Series 90-30 Lithium Battery Pack, IC693ACC302, or IC698ACC701 Lithium Battery Pack
Program storage	Up to 10 Mbytes of battery-backed RAM 10 Mbytes of non-volatile flash user memory
Power requirements	+3.3 VDC: 1.25 Amps nominal +5 VDC: 1.0 Amps nominal
Operating Temperature	0 to 60°C (32°F to 140°F)
Floating point	Yes
Boolean execution speed, typical	0.195ms per 1000 Boolean instructions
Time of Day Clock accuracy	Maximum drift of 2 seconds per day
Elapsed Time Clock (internal timing) accuracy	0.01% maximum
Embedded communications	RS-232, RS-485
Serial Protocols supported	Modbus RTU Slave, SNP, Serial I/O
Backplane	Dual backplane bus support: RX3i PCI and 90-30-style serial
PCI compatibility	System designed to be electrically compliant with PCI 2.2 standard
Program blocks	Up to 512 program blocks. Maximum size for a block is 128KB.
Memory	%I and %Q: 32Kbits for discrete %AI and %AQ: configurable up to 32Kwords %W: configurable up to the maximum available user RAM Symbolic: configurable up to 10 Mbytes
For environmental specifications and compliance to standards (for example, FCC or European Union Directives), refer to the PACSystems RX3i Hardware and Installation Manual, GFK-2314.	

Important Installation Instructions for Battery

Do not connect the battery until the CPU is installed in the rack and the rack is powered on. The battery may then be attached to either of the two terminals in the battery compartment. Once that is done, the CPU may be powered down and normal battery back up operation will begin. To save battery life, do not connect the battery for the first time until the CPU is powered up.

Estimated Battery Life without Power Applied

The nominal backup values are estimated at 20°C (68°F). Backup time increases approximately 17% at 60°C and decreases approximately 32% at 0°C.

IC695ACC302 RX3i CPU Lithium Smart Battery:

Battery Life in Good State	Battery Life in Low State	Total Battery life
185 days	15 days	200 days

Note: When using the Smart Battery, the Battery Low indication can be detected only on the power up condition of the CPU either by the LED indication or the fault table.

IC693ACC302 Auxiliary Battery Module:

200 days at 20°C (68°F)

IC698ACC701 Auxiliary Battery Pack

40 days at 20°C (68°F)