



Series 90-70 PLC

With superior performance, power, and flexibility, GE Intelligent Platforms' Series 90*-70 PLC provides a comprehensive solution that can address your most demanding applications.

With our CPX family of CPUs, the Series 90-70 offers more for your automation dollar—more computing power, more memory for your applications, and more communications and redundancy capabilities. And it provides increased flexibility for a variety of applications due to a wide range of isolated and high-density VME analog I/O modules.

Open Architecture

Based on the VME-bus standard, the Series 90-70 can be used with thousands of boards produced by hundreds of different manufacturers to build a solution that meets your exact needs. These include links to drives and drive systems, servo motor controllers, embedded solutions for vision systems and bus-to-bus interface modules, as well as a variety of modules available from GE (see accompanying table).

Various Degrees of Redundancy

Combining the Series 90-70 with the advanced functionality of Genius* I/O, GE Genius Modular Redundancy (GMR) systems and Hot Standby systems can provide as much or as little redundancy as you need for your critical applications.

- The versatility and strength of the GMR system make it an ideal choice for rigorous emergency shutdown and human life protection systems. It has a class 6 TÜV rating.
- Based on three isolated PLCs and extensive diagnostics, the GMR triple modular redundancy system uses two-out-of-three voting to provide high reliability and error-free operation.
- CPU Genius Redundancy (CGR) systems achieve enhanced hot standby CPU redundancy by connecting two power supplies and two CGR CPUs to one or more Genius I/O networks.

Flexible Communications Options

The Series 90-70 offers a wide variety of communications options, including Ethernet TCP/IP, reflective memory, Genius LAN, and serial communications modules that enable precise solutions using off-the-shelf components. It is an ideal candidate for acting as your factory-floor server, collecting data and seamlessly integrating it with the ERP system.



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Ordering Information

| | Catalog Number | Description | Catalog Number | Description |
|--------------------------|------------------|---|-----------------------------------|---|
| Simplex Controllers | IC697CPU731 | CPU, 512 Discrete I/O, 32K Memory, 12 MHz Processor, 1 serial port | IC697CPX928 | CPU, 12K Discrete I/O, 6 Meg Memory, 96 MHz Processor, 3 serial ports |
| | IC697CPX772 | CPU, 2K Discrete I/O, 512K Memory, 96 MHz Processor, 3 serial ports | IC697CPX935 | CPU, 12K Discrete I/O, 1 Meg fast access Memory, 96 MHz Processor, 3 serial ports |
| | IC697CPX782 | CPU, 12K Discrete I/O, 1 Meg Memory, 96 MHz Processor, 3 serial ports | | |
| Hot Standby CPUs | IC697CGR772 | CPU, 2K Discrete I/O, 512K Memory, 96 MHz Processor, 3 serial ports | IC697CGR935 | CPU, 12K Discrete I/O, 1Meg Memory, 96 MHz Processor, 3 serial ports |
| Critical Control CPU | IC697CPM790 | CPU, 2K Discrete I/O, 1 Meg Memory, 64 MHz Processor. Triplex Voted I/O | | |
| Racks | IC697CHS750 | Rack, 5 Slots, Rear Mount | IC697CHS770 | Redundant Rack (Dual) Rear Mount |
| | IC697CHS790 | Rack, 9 Slots, Rear Mount | IC697CHS771 | Redundant Rack (Dual) Front Mount |
| | IC697CHS791 | Rack, 9 Slots, Front Mount | IC697CHS782 | Integrators Rack, 17 Slots, Rear Mount |
| | IC697CHS790xSV | Rack, 9 Slots, Rear Mount Severe Vibration Rack | IC697CHS783 | Integrators Rack, 17 Slots, Front Mount |
| Power Supplies | IC697PWR710 | Power Supply, 120/240 VAC, 125VDC, 50 watts | IC697PWR724 | Power Supply, 24 VDC, 90 watts |
| | IC697PWR711 | Power Supply, 120/240 VAC, 125VDC, 100 watts | IC697PWR748 | Power Supply, 48 VDC, 90 watts |
| Discrete Inputs | IC697MDL240 | 120 VAC Isolated Input (16 Points) | IC697MDL640 | 125 VDC Input (16 Points) |
| | IC697MDL241 | 240 VAC Isolated Input (16 Points) | IC697MDL651 | 5 VDC (TTL) Input (32 Points) |
| | IC697MDL250 | 120 VAC Input (32 Points) | IC697MDL652 | 12 VDC Input, Positive/Negative Logic (32 Points) |
| | IC697MDL251 | 120 VAC Input (16 Points) Non-isolated | IC697MDL653 | 24 VDC Input, Positive/Negative Logic (32 Points) |
| | IC697MDL252 | 12 VAC Input (32 Points) | IC697MDL654 | 48 VDC Input, Positive/Negative Logic (32 Points) |
| | IC697MDL253 | 24 VAC Input (32 Points) | IC697MDL671 | Interrupt Input Module, 14 points |
| | IC697MDL254 | 48 VAC Input (32 Points) | IC697VDD100 | 24 VDC Source, 64 point, can be configured for SOE (Sequence Of Event) recording |
| | Discrete Outputs | IC697MDL340 | 120 VAC Output, 2 Amp (16 Points) | IC697MDL740 |
| IC697MDL341 | | 120/240 VAC Isolated Output, 2 Amp (12 Points) | IC697MDL750 | 24/48 VDC Output, 0.5 Amp, Positive Logic (32 Points) |
| IC697MDL350 | | 120 VAC Output, 0.5 Amp (32 Points) | IC697MDL752 | 12 VDC Output, 0.5 Amp, Positive Logic (32 Points) |
| IC697MDL940 | | Relay Output, Signal, 2 Amp (16 Points) | IC697MDL753 | 5/48 VDC Output, 0.5 Amp, Negative Logic (32 Points) |
| IC697VDR150 | | Relay Output, 32 point, non latching, 2 amp. | IC697VDQ120 | Digital Output, 64 point, 24VDC at 500 mA, Sink or Source, 64 point |
| IC697VDR151 | | Relay Output, 64 point, non latching | | |
| Analog Inputs | | IC697ALG230 | Voltage/Current, 8 Channels | IC697VAL216 |
| | IC697ALG440 | Analog Input Expander, Current, 16 Channels. Used with IC697ALG230. | IC697VAL232 | 0 to 5 VDC, 0 to 10 VDC, ± 2.5 VDC, ± 5 VDC, ± 10 VDC, 32 Channel, jumper selectable 16 bit Resolution. |
| | IC697ALG441 | Analog Input Expander, Voltage, 16 Channels. Used with IC697ALG230. | IC697VAL264 | 0 to 5 VDC, 0 to 10 VDC, ± 2.5 VDC, ± 5 VDC, ± 10 VDC, 64 Channel, jumper selectable 16 bit Resolution. |
| | IC697VAL132 | 0 - 20 ma, 12 bit, 32 channel single ended or 16 channel differential | IC697VRD008 | RTD/Strain Bridge Module. Supports 8 channels of 100 ohm platinum RTD or ± 30 mV and ± 100 mV voltage inputs. 12 bits plus sign. |
| | IC697VAL134 | 0 to 10 VDC, ± 5 VDC, ± 10 VDC, 32 channel single ended or 16 channel differential. | | |
| Analog Outputs | IC697ALG320 | Analog Output, Voltage/Current, 4 Channels | IC697VAL308 | Analog Output, Isolated, 8 channel, 12 bit, Voltage - bipolar ± 2.5 VDC, ± 5 VDC ± 10 VDC. |
| | IC697VAL301 | Analog Output, 12 bit, 32 channel 0 - 10 VDC, 0 - 5 VDC, ± 2.5 VDC, ± 5 VDC, ± 10 VDC | IC697VAL324 | Analog Output, Isolated, 4 channel, 12 bit, Voltage - polar 0 - 10 VDC, 0 - 5 VDC |
| | IC697VAL306 | Analog Output, 12bit, 16 channel, non Isolated, Voltage/Current jumper selectable voltage 0 - 10VDC, 0 - 5VDC, ± 2.5 VDC, ± 5 VDC, ± 10 VDC or Current 0 to 20mA, 4 to 20mA, and 5 to 25 mA | IC697VAL314 | Analog Output, Isolated, 4 channel, 12 bit, Current - 4 to 20 mA. |
| | IC697VAL328 | Analog Output, Isolated, 8 channel, 12 bit, Voltage - polar 0 - 10 VDC, 0 - 5 VDC | IC697VAL304 | Analog Output, Isolated, 4 channel, 12 bit, Voltage - bipolar ± 2.5 VDC, ± 5 VDC, ± 10 VDC |
| | IC697VAL318 | Analog Output, Isolated, 8 channel, 12 bit, Current - 4 to 20 mA. | IC697VAL348 | Analog Output, 8 channel, 16 bit, Voltage bipolar 0 to ± 10 VDC |
| Communication Modules | IC697CMM711 | Serial Communications Coprocessor, CCM, RTU, SNP, and SNPx Protocols | IC697VRM015 | Reflective Memory with 256 Kbyte memory and 512 transfer FIFO. 170 Mbaud fiber optic network. Supports up to 256 nodes over 2,000 meters. |
| | IC697CMM742 | Ethernet Interface for Series 90-70, Type 2 | IC697RCM711 | Redundancy Communications Module (Hot Standby) |
| I/O Interface Modules | IC697BEM711 | Bus Receiver (Required for Each Local Expansion Rack) | IC697BEM733 | Series 90-70 Genius Remote I/O Scanner |
| | IC697BEM713 | Bus Transmitter (Also Provides Parallel Programming Port) | IC697BEM761 | Series 90-70 I/O Interface (Used with Series Six Plus PLC) |
| | IC697BEM731 | Series 90-70 Genius I/O Bus Controller | | |
| Special Function Modules | IC697HSC700 | High Speed Counter | IC697VSC096 | Single Board Computer, 300 MHz with 32 Mbyte SDRAM and 96 Mbyte Flash |
| | IC697PCM711 | Programmable Coprocessor | IC697VHD001 | 10 Gig Hard Drive for Single Board Computer (IC697VSC096) |

GE Intelligent Platforms Contact Information

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Global regional phone numbers are listed by location on our web site at www.ge-ip.com/contact

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