



GE Fanuc Automation VersaMax™ I/O and Control

*Modular
Solutions
Designed
for Open,
Affordable
Control.*



The new generation of control

Explore the Universal I/O.

Diagnostics

- Network Status
- Fault
- Force
- Power

Easy to Use

- Set Bus Addresses with Rotary Switch — No Programming Required
- Automatic Addressing of I/O

Variety of Network Interfaces

- DeviceNet™
- Profibus-DP
- Genius® Bus

Modular & Scaleable

- Each Network Interface Supports Up to 8 I/O Modules & 256 Points

Wide Range of Discrete I/O

- 25 Modules
- 8, 16 & 32 Point Densities
- Mixed Discrete I/O
- High Speed Counter Inputs

LED Status Indicators

- Field Power
- Module OK
- Point Status

Snap-Together Carriers

- No Cable Interconnects
- DIN Rail Mounting
- Hot Insertion/Removal of I/O

Analog I/O Options

- 9 Modules
- RTD and Thermocouple
- 4 & 8 Channel Analog
- Mixed Analog I/O



Time Saving Wiring Options

- Local and Remote Wiring Options
- Quick Connect Cable to Interposing Terminals
- Barrier Style Terminals
- IEC Box Style Terminals
- Spring Clamp Style Terminals
- Support for 2, 3 and 4 Wire Devices



Tricia Simpson
Lead Design Engineer
GE Fanuc Automation

"Using the advantages of the Six Sigma quality process, we were able to develop the VersaMax I/O on target with your needs for a compact, versatile, affordable I/O solution."

Open Up Your Control.

The new VersaMax I/O is a versatile, easy to use and affordable I/O solution for today's open systems. As a universal I/O, VersaMax gives you the freedom to connect to a wide variety of host controllers, including PLCs, DCS and PC-based control systems by way of DeviceNet, Profibus-DP and Genius bus. Plus, it fully supports the power and open architecture of GE Fanuc PC Control.

VersaMax I/O features a broad family of modules and network interface options to enhance your control capability. With diagnostics, hot insertion of modules and quick connect wiring, it helps to provide maximum uptime, reduced engineering and training, and a dramatic improvement in project life-cycle costs.

Introducing VersaMax™ I/O and Control.

The New Generation of Control.

GE Fanuc Automation combines power and versatility to help provide maximum performance in the new VersaMax compact and affordable control solution.

The VersaMax solution is a single control product that can be used as I/O, as a PLC, and as distributed control for up to 256 I/O points. With its modular and scaleable architecture, intuitive features and unparalleled ease of use, it will help save machine builders and end users time and money.

VersaMax is the first GE Fanuc control product created using the unique Six Sigma design process. Six Sigma combines global research and development techniques, extensive customer needs analysis, and rigorous quality control standards.

The result? A better performing, higher quality product that meets your needs.



VersaMax Advantages:

Unparalleled Ease of Use

- Intuitive Feature Set
- True Plug & Play Capabilities
- No Tools Required for Module Installation or Extraction

Reliability and Uptime

- Designed for Six Sigma Quality
- Intuitive Diagnostics
- Hot Insertion of I/O Modules

Broad Family Offering

- 34 Different I/O Modules
- Powerful PLC CPU
- Open Fieldbus Networking: DeviceNet™, Profibus-DP & Genius®
- Multiple Wiring Options

Affordability

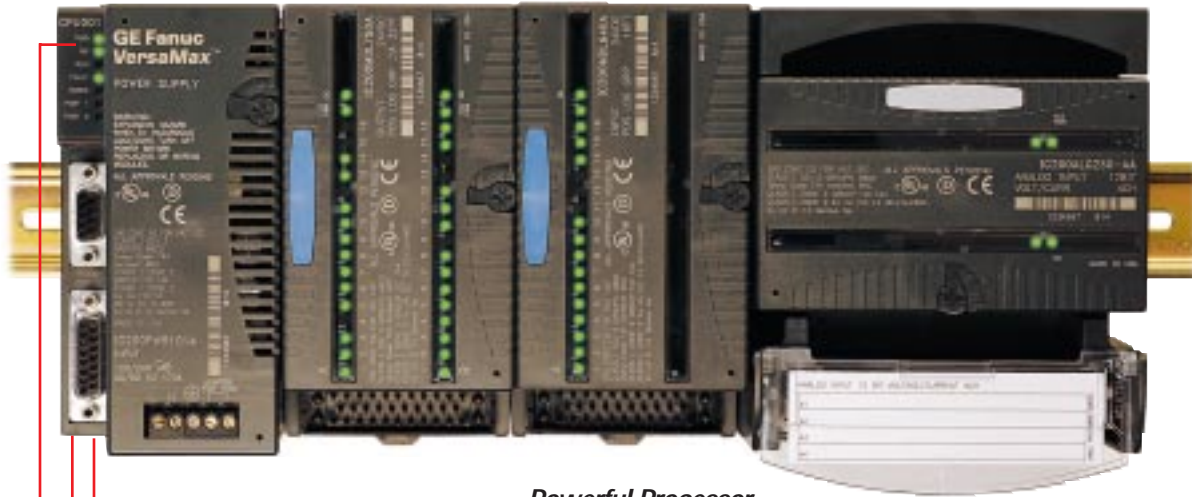
- Low Installed Cost
- Reduced Project Life-Cycle Costs
- Easy Installation & Increased Uptime
- Modular, Scaleable Architecture

Discover a Powerful PLC.



Jim Grimes
Sr. System Design
Engineer
GE Fanuc Automation

"VersaMax PLC makes programmable control easier than ever. And the combination of our feature rich I/O and a powerful CPU provides a level of performance unmatched in the industry."



Diagnostics

- Fault LED
- Force LED
- Internal Fault Table

Flexible Ports

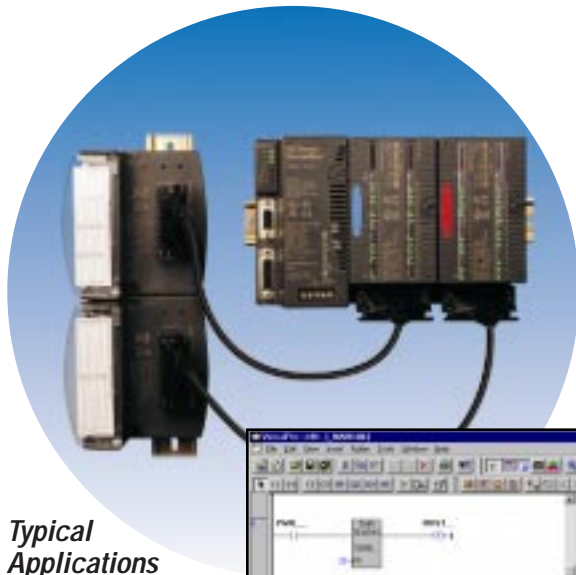
- (1) RS-232 and (1) RS-485
- Series 90™ Protocol
- Modbus® RTU Slave
- ASCII Read/Write Table

Powerful Processor

- 12K of Memory
- Up to 256 I/O Supported
- Floating Point Math
- Real-Time Clock
- Subroutines
- PID
- Flash Memory
- Bumpless Run/Store

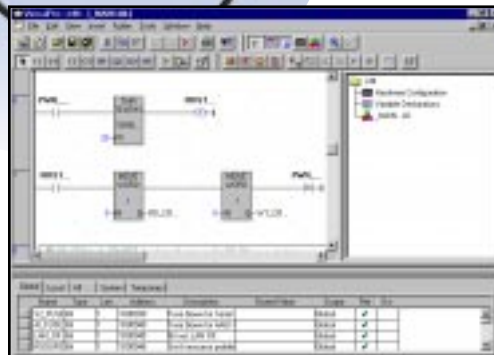
Network Interfaces & Specialty Modules

- DeviceNet Master
- Profibus-DP Slave
- PWM & Pulse Train Outputs



Typical Applications

- SCADA
- Packaging
- Material Handling
- RTU Applications



The New Generation of Control.

The new VersaMax PLC combines all the advantages of the VersaMax I/O with a powerful CPU to provide a programmable controller that is easy to use, affordably priced and feature rich. With a modular and scaleable architecture, the VersaMax PLC is ideal for standalone or distributed control applications up to 256 I/O. It can be networked as a slave to Profibus-DP or you can choose a DeviceNet master module for easy third-party integration. The CPU features floating point math and easy configuration and programming.

VersaPro™ Software utilizes Windows® 95/98 and Windows NT® to help you streamline the programming process, save time and improve control system performance.

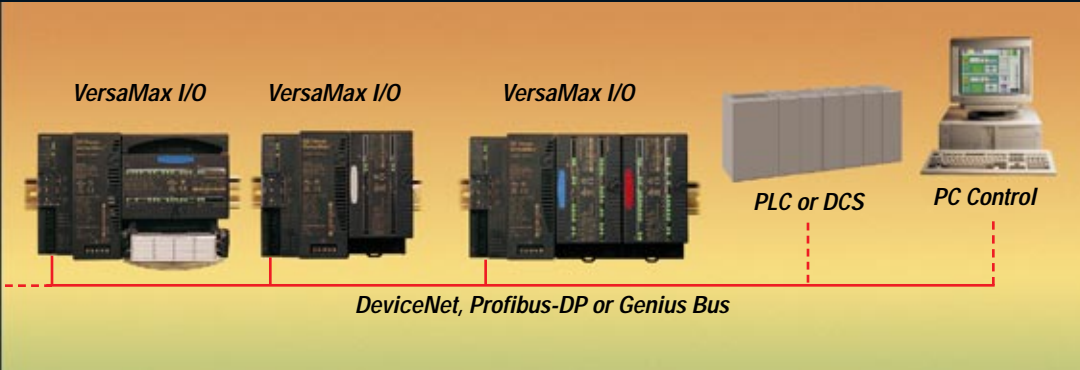
Designed to Go Anywhere.



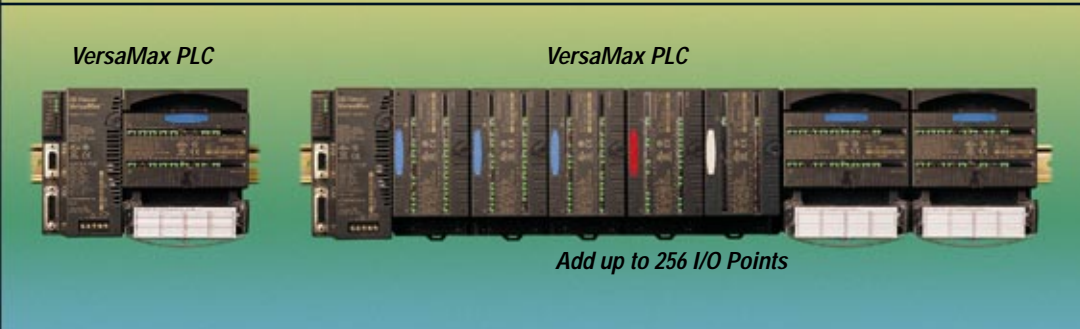
Don Splaun
Advanced
Manufacturing
Technology Manager
GE Fanuc Automation

"With network independence and a variety of network interface options, the VersaMax system is truly unique in the industry. In fact, you won't find a more versatile I/O or control solution anywhere."

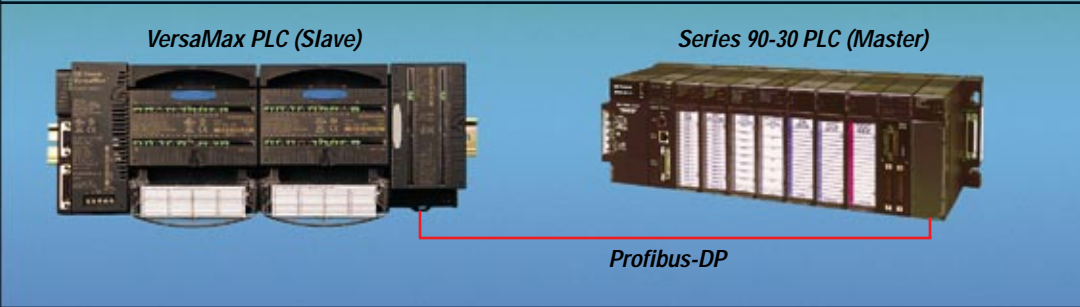
I/O Options



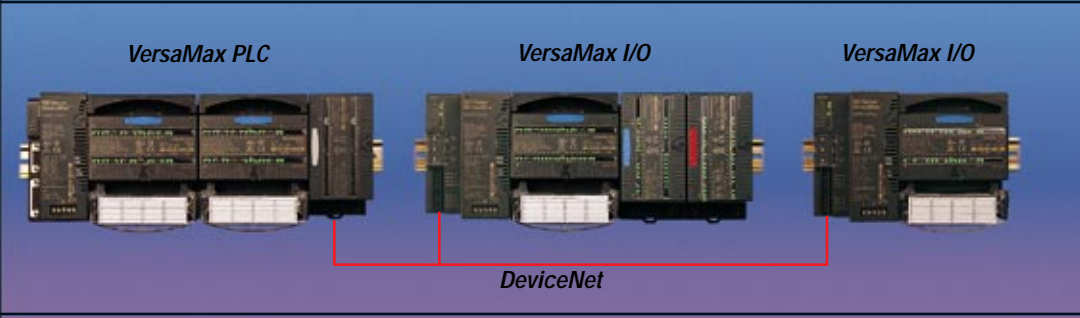
Standalone PLC Options



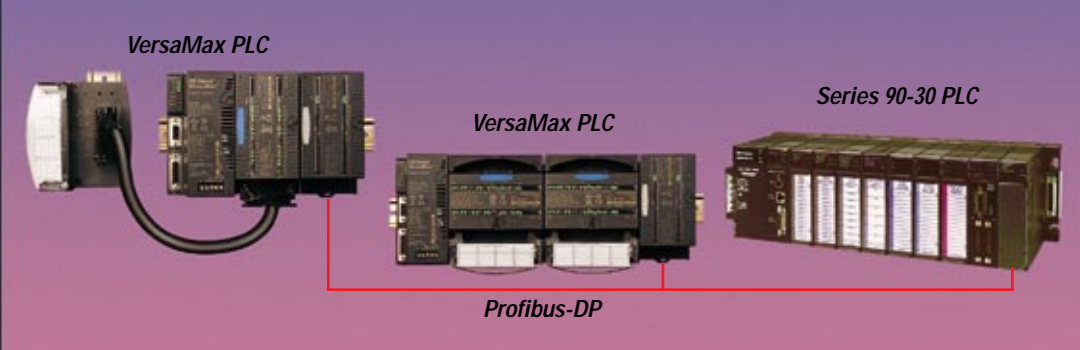
Network Slave



Network Master

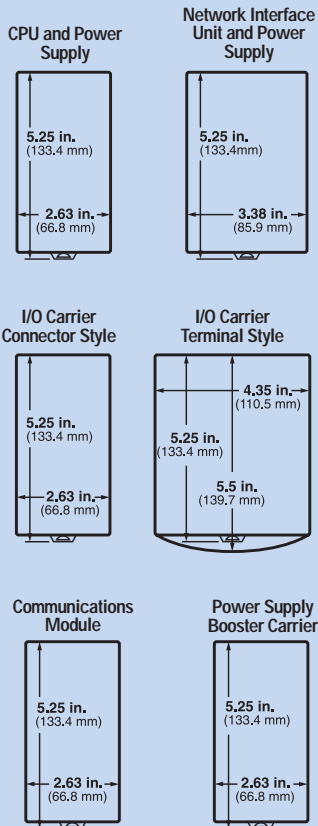


Distributed Control

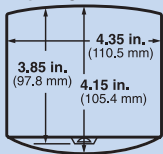


VersaMax Components

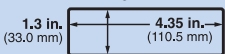
Panel Mounting Dimensions



Interposing I/O Terminals



Auxiliary I/O Terminals



Discrete Input Modules:

IC200MDL140	Input 120VAC, 8 Points
IC200MDL141	Input 240VAC, 8 Points
IC200MDL240	Input 120VAC, 16 Points
IC200MDL241	Input 240VAC, 16 Points
IC200MDL640	Input 24VDC Positive Logic, 16 Points
IC200MDL650	Input 24VDC Positive Logic, 32 Points

Discrete Output Modules:

IC200MDL329	Output 120VAC 0.5 Amp, Isolated 8 Points
IC200MDL330	Output 120VAC 0.5 Amp, Isolated 16 Points
IC200MDL331	Output 120VAC 2.0 Amp, Isolated 8 Points
IC200MDL730	Output 24VDC Positive Logic 2.0 Amp with Electronic Short Circuit Protection, 8 Points
IC200MDL740	Output 24VDC Positive Logic 0.5 Amp, 16 Points
IC200MDL741	Output 24VDC Positive Logic 0.5 Amp with Electronic Short Circuit Protection, 16 Points
IC200MDL742	Output 24VDC Positive Logic 0.5 Amp with Electronic Short Circuit Protection, 32 Points
IC200MDL750	Output 24VDC Positive Logic 0.5 Amp, 32 Points

Mixed Discrete Modules:

IC200MDD840	Mixed 24VDC Positive Logic Input 20 Points/Output Relay 2.0 Amp 12 Points
IC200MDD841	Mixed 24VDC Positive Logic Input 20 Points/Output 24VDC 0.5 Amp 12 Points/ High Speed Counter, PWM or Pulse Train Configurable Points
IC200MDD842	Mixed 24VDC Positive Logic Input 16 Points/Output 24VDC 0.5 Amp with Electronic Short Circuit Protection 16 Points
IC200MDD843	Mixed 24VDC Positive Logic Input 10 Points/Output Relay 2.0 Amp 6 Points
IC200MDD844	Mixed 24VDC Positive Logic Input 16 Points/Output 24VDC 0.5 Amp 16 Points
IC200MDD845	Mixed 24VDC Positive Logic Input 16 Points/Output Relay 2.0 Amp Isolated 8 Points
IC200MDD846	Mixed 120VAC Input 8 Points/Output Relay 2.0 Amp Isolated 8 Points
IC200MDD847	Mixed 240VAC Input 8 Points/Output Relay 2.0 Amp Isolated 8 Points
IC200MDD848	Mixed 120VAC Input 8 Points/Output 120VAC 0.5 Amp Isolated 8 Points

Relay Output Modules:

IC200MDL930	Output Relay 2.0 Amp, Isolated Form A 8 Points
IC200MDL940	Output Relay 2.0 Amp, Isolated Form A 16 Points

Analog Input Modules:

IC200ALG230	Analog Input 12 Bit Voltage/Current, 4 Channels
IC200ALG260	Analog Input 12 Bit Voltage/Current, 8 Channels
IC200ALG620	Analog Input 16 Bit RTD, 4 Channels
IC200ALG630	Analog Input 16 Bit Thermocouple, 7 Channels

Analog Output Modules:

IC200ALG320	Analog Output 12 Bit Current, 4 Channels
IC200ALG321	Analog Output 12 Bit 0-10V Voltage, 4 Channels
IC200ALG322	Analog Output 12 Bit +/-10V Voltage, 4 Channels

Mixed Analog Modules:

IC200ALG430	Analog Mixed 12 Bit Input Current 4 Channels / Output Current 2 Channels
IC200ALG431	Analog Mixed 12 Bit 0-10V Input 4 Channels / Output 0-10V 2 Channels

I/O Carriers:

IC200CHS001	I/O Carrier, Barrier Style, Field Wiring Interface
IC200CHS002	I/O Carrier, Box Style, Field Wiring Interface
IC200CHS003	I/O Carrier, Connector Style, Field Wiring Interface (Requires One Cable)
IC200CHS005	I/O Carrier, Spring Clamp Style, Field Wiring Interface
IC200CHS006	Communications Carrier (Genius, DeviceNet, Profibus-DP)

Standards: UL Class I Div II, C-UL, CE, Demko Class I Zone II. Some approvals pending for certain models. Contact GE Fanuc for details.

*Note: Network Interface Units only support autoconfiguration of I/O. Modules that have software configurable features use their default settings.

IC200CHS011	I/O Interposing Terminals, Barrier Style, Field Wiring Interface (Requires One Cable and One IC200CHS003)
IC200CHS012	I/O Interposing Terminals, Box Style, Field Wiring Interface (Requires One Cable and One IC200CHS003)
IC200CHS014	I/O Interposing Terminals, Box Style Thermocouple Compensation, Field Wiring Interface (Requires One Cable and One IC200CHS003)
IC200CHS015	I/O Interposing Terminals, Spring Clamp Style, Field Wiring Interface (Requires One Cable and One IC200CHS003)
IC200TBM001	I/O Auxiliary Terminals, Barrier Style, Field Wiring Interface (Required for 2, 3 and 4 Wire Connections)
IC200TBM002	I/O Auxiliary Terminals, Box Style, Field Wiring Interface (Required for 2, 3 and 4 Wire Connections)
IC200TBM005	I/O Auxiliary Terminals, Spring Clamp Style, Field Wiring Interface (Required for 2, 3 and 4 Wire Connections)

Network Interface Units:*

IC200GBI001	I/O Network Interface for Genius Bus (Slave)
IC200PBI001	I/O Network Interface for Profibus-DP (Slave)
IC200DBI001	I/O Network Interface for DeviceNet (Slave)

Network Communication Modules:

IC200BEM002	PLC Network Communication Profibus-DP (Slave)
IC200BEM103	PLC Network Communication DeviceNet (Master)

CPU:

IC200CPU001	CPU 12K Memory, Two Ports - RS-232 and RS-485
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Power Supplies:

IC200PWB001	Power Supply Booster Carrier
IC200PWR001	Power Supply 24VDC Input
IC200PWR002	Power Supply with Expanded 3.3VDC 24VDC Input
IC200PWR101	Power Supply 120/240VAC Input
IC200PWR102	Power Supply with Expanded 3.3VDC 120/240VAC Input

Cables:

IC200CBL001	Cable, CPU Programming RS232
IC200CBL002	Cable, Expansion Firmware Upgrade
IC200CBL105	Cable, I/O Non-Shielded 2 Connectors .5M
IC200CBL110	Cable, I/O Non-Shielded 2 Connectors 1.0M
IC200CBL120	Cable, I/O Non-Shielded 2 Connectors 2.0M
IC200CBL230	Cable, I/O Non-Shielded 1 Connector 3.0M

Starter Systems:

IC200PKG001	PLC Starter System: Includes CPU IC200CPU001, AC Power Supply IC200PWR101, Mixed Discrete I/O Module IC200MDD845, I/O Carrier IC200CHS002, Input Simulator IC200ACC302, VersaPro Software and Cable, and Manuals.
IC200PKG101	I/O Starter System, Genius: Includes Genius NIU IC200GBI001, AC Power Supply IC200PWR101, Mixed Discrete I/O Module IC200MDD845, I/O Carrier IC200CHS002, Input Simulator IC200ACC302, and Manuals.
IC200PKG102	I/O Starter System, Profibus-DP: Includes Profibus-DP NIU IC200PBI001, AC Power Supply IC200PWR101, Mixed Discrete I/O Module IC200MDD845, I/O Carrier IC200CHS002, Input Simulator IC200ACC302, and Manuals.
IC200PKG103	I/O Starter System, DeviceNet: Includes DeviceNet NIU IC200DBI001, AC Power Supply IC200PWR101, Mixed Discrete I/O Module IC200MDD845, I/O Carrier IC200CHS002, Input Simulator IC200ACC302, and Manuals.

Accessories:

IC200ACC302	I/O Input Simulator
IC200ACC304	I/O Cable Connector Kit Qty 2

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