The new VersaMax SE is a versatile, cost-effective bridge from the serial port on a device to an Ethernet network. The VersaMax SE provides the VersaMax Nano and VersaMax Micro PLC easy access to Ethernet for exchanging information, transferring programs, monitoring and controlling.

Now it is possible to connect a wide variety of serial devices, such as PLCs, VFDs, bar code readers, and scales to Ethernet LAN. Thus eliminating the complexity of serial connectivity and protocol mismatches. Serial devices that support Modbus RTU Slave or custom protocols can be easily connected to the VersaMax SE as a bridge to Ethernet LAN. Custom protocols can be created using the software tools provided.

The VersaMax SE is compact, measuring just 3.5 in. (90mm) high x 2.25 in. (60mm) deep x 1.37 in. (36mm) wide. DIN rail mounting provides fast, easy installation and is powered by 9 –24VDC.



VersaMax SE - Bridging the gap between a VersaMax Nano and an Ethernet LAN

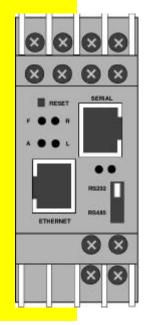
VersaMax SE Product Features:

- · Serial Port connection to controller:
 - One RS-232 (RJ45 or screw terminals) or RS-422/RS-485 (screw terminals) connection.
 - Supports SNP, RTU Slave and ASCII serial protocols.
 - RS-422/RS-485 (up to 32 devices multidropped. SNP devices not supported)
- 10BASE-T connection to Ethernet LAN:
 - One RJ45 connection.
 - 10Mbps communication speed.
 - Supports GE Fanuc SRTP, EGD (Ethernet Global Data (Future), Modbus Ethernet, UDP, TCP and Telnet.
- Rugged construction for industrial applications.
- Compatible with GE Fanuc VersaMax Nano, Micro, VersaMax modular, and Series 90-30 PLCs using the SNP protocol.
- Diagnostic LEDs show:
 - Ready or Connection to host established
 - Network traffic activity
 - Link good Ethernet link
 - Serial transmit and receive activity
 - Fault or Configuration error
- · Reset switch to reset power and initialize
- IP address is stored in Flash Memory

VersaMax SE Application Benefits:

- The VersaMax SE is preloaded with the GE Fanuc SNP and SRTP protocols. Data from the plant floor can be accessed by an HMI, such as CIMPLICITY® HMI and other high level devices without costly customization.
- Programming and debugging of GE Fanuc PLCs can easily be done using the VersaPro™ PLC programming software over Ethernet. This reduces downtime and increases efficiency.
- Software tools are provided that allow protocol customization
 of the VersaMax SE for serial communication to ASCII
 devices such as bar code readers, scales, robots, variable
 frequency drives, solid state starters and other controllers
 over an Ethernet network.
- The industrial design of the VersaMax SE enables it to work almost anywhere on the plant floor.
- VersaMax SE can be set up completely over Ethernet. No need to use serial cables to a PC for configuration.
- Modbus Ethernet connectivity can be achieved by configuring the GE Fanuc PLC in the Modbus RTU mode thus enabling data transfers between the Ethernet LAN and the PLC's.
- Network costs can be greatly reduced by using off-the-shelf hardware and tools.

Specifications & Ordering Information



| Compatibility Matrix for GE Fanuc PLCs | | | |
|---|-------------------------------------|----------------------------|--|
| Model | Protocol | Firmware Version | |
| Series 90 Micro | RTU Slave | 3.10 or greater | |
| VersaMax Nano and Micro | SNP and RTU Slave | 1.0 or greater | |
| VersaMax modular | SNP and RTU Slave | 1.0 or greater | |
| Series 90-20 | Not Supported at this time | | |
| Series 90-30 | SNP and RTU Slave | 8.2 or greater | |
| Series 90-70 | RTU Slave | 7.21 | |
| Series One, Three, Five and Six | RTU Slave | | |
| Logicmaster Ethernet | SNP | Ver. 9.02 or greater | |
| VersaPro | SNP | Ver. 1.1 or greater | |
| Control | SNP | Ver. 2.3 or greater | |
| CIMPLICITY HMI | SNP or RTU Slave | Ver. 4.01 or Greater | |

Above have been tested as of 7/18/00

Note: Release 1.0 supports SRTP to SNP, Modbus Ethernet to Modbus Slave or custom protocols only.



| Processor and Memory | | |
|------------------------|---|--|
| Processor | V40, 10MHz clock | |
| Flash Memory | 128K (256K fourth quarter 2000) | |
| RAM | 32K | |
| Parameter Storage | 256 byte EEPROM | |
| Flash System Software | Downloadable from a TCP/IP host (TFTP download) or serial port | |
| Tools | | |
| IP Address | The VersaMax SE is shipped with a default IP address of 0.0.0.0 which | |
| | automatically enables the DHCP within the VersaMax SE | |
| Reset Button | Reset button on the front enables user to reset power and re-initialize unit. | |
| Status LED's | | |
| Ethernet Status | | |
| "F" LED | Red on steady - configuration error | |
| | Red light flashing - configuration mode/ during reset/ or during power cycle | |
| | Red light off – normal operation | |
| "A" LED | Yellow Flashing during normal operation. Unit seeing transmission | |
| | packets and broad cast traffic | |
| "R" LED | Green on steady – connection to network host established | |
| "L" LED | Green on steady – link is good to Ethernet | |
| Serial Status | | |
| Transmit LED | Flashing during normal transmissions | |
| Receiving LED | Flashing during normal receptions | |
| Communications | | |
| Ethernet | | |
| Network Interface | Integrated 10BaseT port (RJ45 connector) | |
| Communications Speeds | 10Mbps | |
| Compatibility | Ethernet version 2/IEEE 802.3 | |
| Protocols Supported | - SRTP (Default, GE Fanuc) - Modbus Ethernet - UDP | |
| | - TCP - EGD (Future) - Telnet | |
| Serial | D145 | |
| Serial interface | RJ45 connector – RS-232 | |
| (Only one active) | Screw terminal – RS-232 or RS-422/485 (Up to 32 drops except SNP) | |
| Communications Speeds | 300 to 38.4 Kbps | |
| Serial Selector Switch | Selectable setting for either RS-232 or RS-422/RS-485 | |
| Modem Control | RTS and CTS | |
| Serial Line Formats | - Characters: 7 or 8 data bits - Stop bits: 1 or 2 | |
| | - Parity: odd, even or none | |
| Flow Control | XON/XOFF hardware flow control, and None | |
| Protocols Supported | - SNP/SNPX (Default) - Modbus RTU - ASCII | |
| DC Power Source | | |
| Primary Power Range | 9 to 30VDC @ 3 watts power consumption | |
| Dimensions | 0.5 1. (00) [1] 1. 0.05 1. (00) [1 | |
| Dimensions | 3.5 in. (90mm) High x 2.25 in. (60mm) deep x 1.37 in. (36mm) wide | |
| Mounting | DIN Rail (DIN50 022 rail) | |
| Environnemental | Conditions | |
| Operating Temperature | 0 to +60 Degrees C | |
| Humidity | 20% to 90% non-condensing | |
| Agency Approvals | UL, C-UL, FCC, TUV and CE (FM pending) | |

| Ordering Information | | |
|----------------------|--|--|
| Part Number | Description | |
| IC200SET001 | VersaMax SE with IC200CBL504 (4.0 inch RJ45 to RJ45 cable to connect the VersaMax Micro or Nano to VersaMax SE), Manual (GFK-1852) and CD (Configuration software) | |
| IC200TBX210 | Ethernet Starter Kit - VersaMax SE (IC200SET001) and VersaMax Nano (IC200NDR001) with VersaPro (IC640VPS002) | |
| IC200TBX214 | Ethernet Starter Kit - VersaMax SE (IC200SET001) and VersaMax Micro (IC200UDR001) with VersaPro (IC640VPS002) | |
| IC200TBX223 | Ethernet Starter Kit - VersaMax SE (IC200SET001) and VersaMax Micro (IC200UAL006) with VersaPro (IC640VPS002) | |
| IC200TBX228 | Ethernet Starter Kit - VersaMax SE (IC200SET001) and VersaMax Micro (IC200UDR005) with VersaPro (IC640VPS002) | |

VersaMax, Series 90, VersaPro are trademarks CIMPLICITY is a registered trademark of GE Fanuc Automation North America, Inc. Modbus is a trademark of Modicon

GE Fanuc Automation

GE Fanuc Automation Information Center

USA and Canada 1-800-648-2001 Europe and Middle East (352) 727929-1 Asia Pacific 65-566-4918