

**Module Descriptions**

This datasheet describes option modules that can be installed on a VersaMax Micro-64 PLC CPU. They cannot be used with other types of VersaMax Nano or Micro PLCs.

For more information about these Option Modules, and about VersaMax Micro-64 PLCs, please refer to the *VersaMax Nano and Micro PLCs User's Manual*, GFK-1645E or later.

Use of an Option Module must be set up in the CPU configuration. If the configuration and hardware do not match, the PLC logs a System Configuration Mismatch fault in the PLC Fault Table.

**Ordering Information**

IC200UMB001	Memory Pack module for program download to Micro 64.
IC200USB001	RS-232 option board with (2) 0 -10VDC analog inputs. Connector to support Memory Board.
IC200USB002	RS-485 option board with (2) 0 -10VDC analog inputs. Connector to support Memory Board.
IC200UUB001	USB option board (no analog option). Connector to support Memory Board.

**Memory Pack Module**

VersaMax Micro-64 Memory Pack Module IC200UMB001 can be used to store and update PLC configuration, application program, and reference tables data.

A programmer and PLC CPU are used to initially write data to the Memory Pack Module. The programmer can also read data already stored on the module, and compare that data with similar files already present in the programmer.

After the data is written to the Memory Option Module, the data can be written to one or more other PLC CPUs of the same type, with no programmer needed.

The Memory Pack Module and PLC must both have either no OEM key password or the same OEM key password for an update to occur. The Memory Pack Module does not perform special processing for other type of passwords.

The Memory Pack Module plugs directly into port 2 on VersaMax Micro-64 PLC. Power for the device comes from port 2.

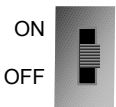


**Features**

- Store 128KB of data.
- Read the data at Power up
- Read/Write/Verify data through programmer command
- Read/Write/Verify Data with a Programmer Present

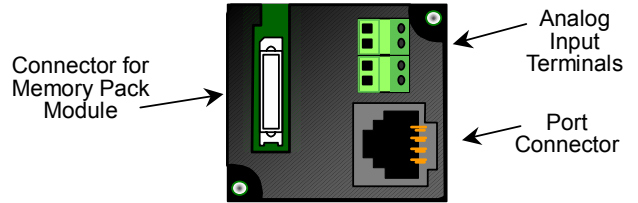
**Write Protect Switch**

The Write Protect switch on the Memory Pack Module prevents writing data to the module when it is in the ON position. If the Write Protect switch is in ON position and the programming software tries to write data to the Memory Pack Module, the data is NOT written to the module. However, no error message is generated, and there is no indication that the data has not been written. This should be considered before setting the Write Protect switch.



**RS232 Extra Port Option Module**

RS-232 Port Option Module IC200USB001 can be used with a 64-Point Micro PLC to provide an extra RS232 Port and two analog inputs.



When installed on the 64-Point Micro PLC, the RS232 Port Option Module becomes port 2. It supports the following communications protocols: SNPX, Modbus Master/Slave, Serial Read/Write, SNP Master/Slave.

Use of the Port Option module as port 2 and the protocol selection must be set up in the configuration software. After making those selections, the communications parameters can also be configured.

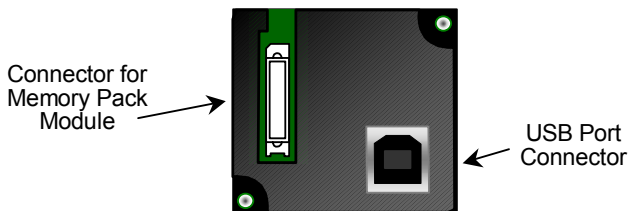
Pin assignments for Port 2 are:

8	SG	Signal Ground
7	VCC	5VDC Output
6	10V	10VDC Output
5	NC	-
4	SD	Sent Data
3	RD	Received Data
2	NC	-
1	RS	Request to Send

The analog Inputs are described on the next page.

**USB / RS232 Conversion Option Module**

Option Module IC200UUB001 can be used with a 64-Point Micro PLC to provide a USB Port.

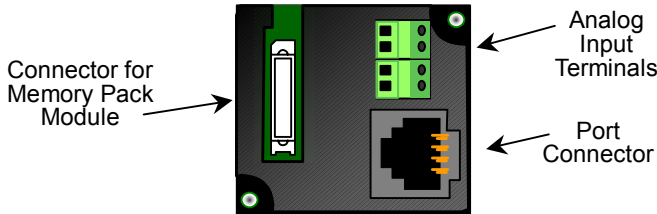


Characteristics of the USB port are:

Connector	Straight B type
USB version	2.0
Power	Self power
Baud Rates Supported	4800 through 19200 only. Do not configure other baud rates for Port 2 when using the USB Conversion Option Module.

**RS-422/485 Extra Port Option Module**

Option Module IC200USB002 can be used with a 64-Point Micro PLC to provide an extra RS-422/485 Port and two analog inputs.



When installed on the 64-Point Micro PLC, the RS232 Port Option Module becomes port 2. It supports the following communications protocols: SNPX, Modbus Master/Slave, Serial Read/Write, SNP Master/Slave.

Use of the Port Option module as port 2, and the protocol selection must be set up in the configuration software. After making those selections, the communications parameters can also be configured.

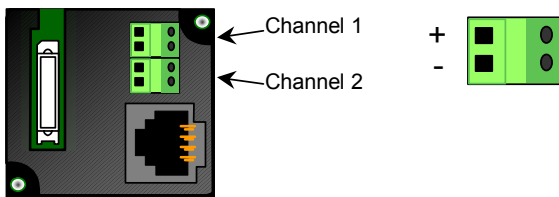
Pin assignments for Port 2 are:

8	SG	Signal Ground
7	VCC	5VDC Output
6	NC	Not used
5	TX(+)	Send Data +
4	TX(-)	Sent Data -
3	RX(-)	Received Data -
2	RX(+)	Receive Data +
1	RT	Terminal Resistor

The analog Inputs are described below.

**Analog Inputs on RS-232 and RS-422/485 Option Modules**

The RS-232 and RS-422/485 Extra Port Option Modules each provide terminals that can be used for analog inputs.



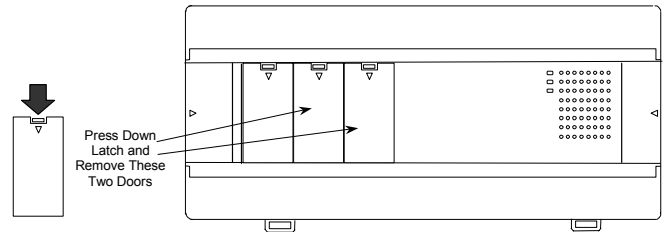
The analog inputs on these Option Modules have the following characteristics:

Input Ranges	0-10 V (10.24 V Max)
Resolution	0-10 V, 10 bits
Accuracy	+/-1%
Linearity	+/-3 LSB Maximum
Voltage Input Impedance	100KOhm
Isolation	Channel to channel: none CPU to analog signal: none
Analog Terminal Wiring	Solid wire: 0.14mm <sup>2</sup> to 1.5mm <sup>2</sup> Stranded wire: 0.14mm <sup>2</sup> to 0.10mm <sup>2</sup>

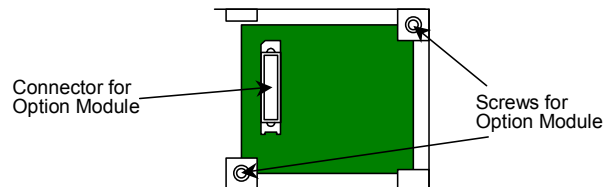
**Installation Instructions**

**Power to the VersaMax Micro-64 PLC MUST BE TURNED OFF when installing or removing Option Modules.**

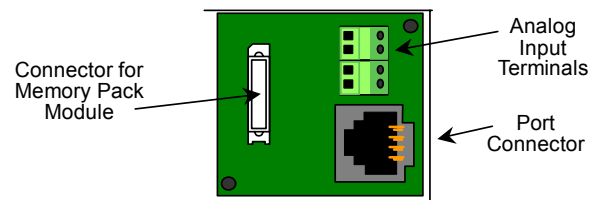
1. Remove the two doors shown below, by pressing downward on the latches and lifting them away from the module.



2. If a port-type Option Module is being installed, orient the connector on the Option Module with the connector in the Micro PLC. Be careful to avoid contact with the exposed components in the module.



3. Press the Option Module downward until it clicks into place.
4. Install the screws provided with the Option Module into the corners indicated above.



5. If a Memory Pack Module is being installed, orient the connector on the back of the Memory Pack Module with the connector on the Micro PLC or port-type Option Module. Press the Memory Pack Module downward until it clicks into place.
6. Install the protective cover(s). If only the Memory Pack Module is used, both covers may be installed. If a port module is used, the righthand cover is not installed and the port connector remains accessible.