



Copley Xenus

Controllers

Overview

Maple Systems' **Silver Plus Series** Operator Interface Terminals (Maple OITs) communicate with Copley Xenus Controllers using the Copley ASCII Interface protocol. When configured with EZware, the Maple OIT is the master in a single master, single slave format.

Compatible PLCs	
Family	Model
Xenus	All
Xenus Micro	All
Accelnet	All
Accelnet Micro	All
Stepnet Series	All

Communications Cable

The Maple OIT can be connected directly to the Programming port on the PLC.

A list of communications cables offered by Maple Systems, as well as cable assembly instructions to assist you in assembling your own communications cable, are available on our website.

WARNING: If your communications cable is not wired exactly as shown in our cable assembly instructions, damage to the OIT or loss of communications can result.

Controller Settings

The Controller must be set to CAN Address 0.
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Accessible PLC Memory

Register Memory

The following table lists the PLC's register memory ranges that the Maple OITs are able to access. Please note that your PLC's memory range may be *smaller or larger* than that supported by these OITs. The following register memory can be displayed in 16 or 32 bit format on the Maple OIT.

PLC Register Type	Address Range	Format	PLC Register Description
Flash_INT16	0 to 999	hhh (h=hexadecimal)	Read/Write Flash Memory Address – 16 bit
RAM_INT16	0 to 999	hhh	Read/Write RAM Memory Address – 16 bit
Flash_INT32	0 to 999	hhh	Read/Write Flash Memory Address – 32 bit
RAM_INT32	0 to 999	hhh	Read/Write RAM Memory Address – 32 bit
Register	0 to 2457	dddd (d= decimal)	Read/Write Controller Register
T_command	0	h	Read/Write Trajectory Generator
Reset	0	h	Resets controller

Discrete Memory

Discrete Memory addresses are not supported in this communications driver.

Important Memory Considerations

If your PLC's memory range is smaller than the range supported by the Maple OITs, it is possible to configure the OIT to monitor a PLC memory address which does not exist. Since this can cause unpredictable results, when you configure the OIT please ensure that all selected PLC memory addresses are valid for your PLC model.

Do not configure the OIT to write to any PLC memory address if that particular address should only be written to by the PLC (not the OIT).

EZware Settings

The following table list the communications setting that must be configured in EZware. These settings can be found in the Edit Systems Parameters menu under the Device tab.

Please Note:

The **Recommended Settings** column provides the recommended setting based upon the default settings most commonly used in the Copley Controllers.

The **Options** column lists EZware's options – your PLC may not support every option.

Name	Recommended Settings	Options	Important Notes
Name:	Copley Controls		Description of Comm Port
HMI or PLC	PLC		
Location	Local	Local, Remote	Select local if PLC directly connected to OIT, remote if PLC connected thru another OIT
PLC type	Copley Controls		
PLC I/F:	RS232	RS-232, RS-485 2W, RS-485 4W, Ethernet	Must match the PLC port setting
PLC default station no.:	0	0-255	Not Applicable
Settings:	COM 1	COM1-COM3	Serial port of OIT connected to PLC
Settings: Baud rate:	9600	9600, 19200, 38400, 57600, 115200	Must match the PLC's port setting. Use the fastest baud rate supported by the PLC
Settings: Data bits:	8	7 or 8	Must match the PLC's port setting
Settings: Stop bits:	1	1 or 2	Must match the PLC's port setting
Settings: Parity:	None	Even, Odd, None	Must match the PLC's port setting
Settings: Timeout (sec)	1.0	0.1 to 25.5	Adjust if longer timeout is required
Settings: Turn around delay (ms)	0	0-1000	Timeout period between OIT polls
Settings: Reserved 1:	0		Not Applicable
Settings: Reserved 2:	0		Not Applicable
Settings: Reserved 3:	0		Not Applicable
Settings: Reserved 4:	0		Not Applicable

Interval of block pack words	5	0-512	See Silver Series Plus Installation Operation Manual
Max. read-command size (words):	2		Not Adjustable
Max. write-command size (words):	2		Not Adjustable

Online Simulator	Not Supported
Extended Address Mode	Not Supported
Broadcast Command	Not Supported