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Q1683: Using SA85 Modbus Plus Card

Using SA85 Modbus Plus Card

Applies To:

- CitectSCADA 1.00 1.01 1.10 1.11 1.20 2.00 2.01 3.00

Summary:

How do I use the SA85 **Modbus Plus** Card?

Solution:

The memory address and station address are set via dip switches on the board.

The device driver 'sa85.sys' must be installed with software interrupt vector at 0x5b (/s5b) and /r2 option. See pages 31-35 of Modicon **Plus** Network Programming Guide GM-MBPL-002 Rev. A. for more information.

```
e.g. in config.sys
device=c:\sa85.sys /mc800 /r2 /s5b
```

Run the TSR 'dos_mp' from winstart.bat before starting up windows.

Boards form

Board name:	User supplied unique name
Board type:	MBPLUS
Address:	0 Board number as in /n option in 'sa85.sys'. Needed only if more than one board is used
I/O Port:	not used
Interrupt:	not used
Special Opt:	not used

Ports form

Port name:	User supplied unique name
Port number:	not used
Board name:	Use the "Board name" from the Boards form
Baud rate:	not used
Data bits:	not used
Stop bits:	not used
Parity:	not used
Special Opt:	not used

I/O Devices form

Name:	User supplied unique name
Number:	Network wide I/O device number
Address:	Path to the PLC in the form p.p.p.p.p e.g. to PLC at node 1: 1 to PLC at node 2 through a bridge at node 5: 5,2
Protocol:	MBPLUS
Port name:	Use the "Port name" from the Ports form

Note: For maximum performance a virtual port should be created for each **Modbus Plus** unit. Up to eight ports may be defined per board. Each port can have multiple **Modbus Plus** units.

Citect.ini option

Details

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الإسبانية

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Standard Options

[MBPLUS]
StringReverse = 0
Do not swab bytes in words of strings.

[Kernel]
MsClock = 0
To use the high resolution clock to improve performance set MsClock to 1.

Standard citect.ini options

[MBPLUS]
MaxPending = 2
Block = 238 bytes
Retry = 0
Delay = 0
TimeOut = 2000 milliseconds
PollTime = 20 milliseconds
WatchTime = 30 seconds

Files

- SA85.SYS - Modbus Plus device driver from MODICON
- DOS_MP.EXE - Modbus Plus Driver DOS TSR
- MBPLUS.DLL - Modbus Plus Driver for windows

Modbus Variables

Digital		
	00001	Output Coils 1 to 99999
	10001	Input status 1 to 99999
Integer/Long/Real/String		
	30001	Input registers 1 to 99999
	40001	Output registers 1 to 99999

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