IMPORTANT PRODUCT INFORMATION

READ THIS INFORMATION FIRST

Product: VersaMax™ SE (VMSE) – Serial to Ethernet Adaptor Version 3.4
IC200SET001-FE

The VersaMax SE provides Ethernet to Serial communication connectivity in a DIN-rail mount package. For protocols and number of connections supported, see page 5.

Compliance

Hardware version –Ex and later of the module has been relabeled to meet branding requirements.

Product features, performance and compatibility have not changed. Firmware for the IC200SET001-EC remains the same at Version 2.01

Firmware Upgrade Strategy

Applications with -Bx and later versions of the module that use the SNP driver and experience the issues detailed below should update their unit using the driver provided with the firmware release.

Hardware upgrades are not available or required.

The upgrade is available for download from the Technical Support website, https://www.emerson.com/Industrial-Automation-Controls/support.The upgrade kit numbers are 4A749947-001 R03 for IC200SET001-BC or 44A749947-001 R04 for IC200SET001-CC and later. The upgrade kit 44A749947-001R08 is for IC200SET001-FD, IC200SET001-FE and later.

Problems resolved in IC200SET001-FE

Issue	Description
Connectivity issue with SRTP Ethernet to Slave SNP over RS485 communication	The module revision IC200SET001-FD was not able to communicate through RS485 serial interface when it was configured for "SRTP Ethernet to SNP slave" mode. Firmware version 3.4.0.3 resolves this issue.

Problems resolved by release 3.4 (for all modes)

Security settings:

- Added security settings to enable/disable various ports as per the requirements of application.
- Added feature for enable/disable password for accessing telnet.
- Added support for enabling/disabling TFTP download and configuring port 77FEh.

Problems Resolved by Release 2.60 (for Modbus functionality - FW only release)

Security Settings:

- Added security settings to enable/disable various ports as per the requirements of application.
- Added feature to enable/disable password for accessing Telnet.

Restrictions and Open Problems

Serial Load of Firmware does not work

Load firmware over the Ethernet network. This problem only occurs when the SNP/SRTP firmware is resident in the VMSE (which is the default firmware the VMSE is shipped with). Many error messages will occur; do not abort the operation wait; until you receive an error of a bad checksum; you can then reset the VMSE and it will contain the previous firmware before the load was attempted.

*The Serial prompt * does not always appear after resetting the VMSE.*

If the serial prompt asterisk (*) does not appear, follow this procedure: (1) press the reset button, (2) wait until the right amber serial LED turns off and the left amber serial LED turns on, and (3) enter xxx or xx1 to enter configuration or monitor mode.

Machine Edition and VersaPro do not always reconnect on power cycle of PLC or if serial cable between VMSE and PLC is disconnected

If the programming software does not reconnect, click on Abort and Connect to re-establish communications. On *rare* occasions, the programming software will need to be closed and restarted.

HMI does not always properly re-establish communications on power cycle of VMSE or PLC

To re-establish communications, use the CIMPLICITY Process Control panel to stop and restart the Master_TCPIP0 communication driver.

Setting the value of 9999 registers with Logicmaster takes 1 to 2 minutes

The operation occurs and is successful but the Logicmaster programming software appears to lock up. If you are setting large numbers of registers, be patient.

Commanding a PLC to "write to flash"

In some larger applications, if the PLC is instructed to write to flash, the operation may take longer than the sixty-second maximum timeout period of the software.

Using Multiple Programmers

When multiple connections are attached to a PLC through the VMSE, if one programmer downloads to the PLC or instructs the PLC to write to flash, the other connections may be lost.

SRTP Write Channel COMMREQ not handled properly by VMSE

When a Client sends an SRTP Write Channel COMMREQ to write more than 4 words, the Server VMNM CPU that receives this command through VMSE goes into Stop Faulted mode. In this condition, the OK LED on VMNM CPU starts blinking. This issue is not observed when COMMREQ is applied to write 4 words or less. Recovery from this problem requires the unit to be turned OFF and back ON.

Release History

VMSE Firmware File List: For IC200SET001-FD, IC200SET001-FE and later hardware versions

Functionality	File for Network Download	Destination (password)
SNP/SRTP	snpd_3403.rom	G6
PassThru	AQGD61104B1.rom	G6
Modbus	MBGD3403B1.rom	G6

VMSE Firmware File List: For IC200SET001-FD and later hardware versions

Functionality	File for Network Download	Destination (password)
SNP/SRTP	snpd_3402B2.rom	G6
PassThru	AQGD61104B1.rom	G6
Modbus	MBGD3403B1.rom	G6

Firmware update for Modbus functionality only for module revision -BB or later

Functionality	File for Serial Download	File for Network Download	Destination (password)
Modbus	--	MBGD2600B1.ROM	G3

VMSE Firmware File List: For IC200SET001-BC and later hardware versions

Functionality	File for Serial Download	File for Network Download	Destination (password)
SNP/SRTP	SNPD0161.HEX	SNPD0161.ROM	G3
PassThru	AQGD05801.HEX	AQGD05801.ROM	G3
Modbus	MBGD0220.HEX	MBGD0220.ROM	G3

Note: The number in each file denotes revision. Newer revisions if available will be posted on the Support web site.

VMSE Firmware File List: For IC200SET001-BB

Functionality	File for Serial Download	File for Network Download	Destination (password)
SNP/SRTP	SNPD0151.HEX	SNPD0151.ROM	G3
PassThru	AQGD510.Hex	AQGD510.ROM	G3
Modbus	MBGD0200.Hex	MBGD020.Rom	G3

VMSE Firmware File List: For IC200SET001-AA

Functionality	File for Serial Download	File for Network Download	Destination (password)
SNP/SRTP	SNP100.HEX	SNP100.ROM	G1
PassThru	Cbx410.Hex	Cbx410.ROM	3Q
Modbus	Mod12.Hex	Mod12.Rom	4D

Operational Notes

Firmware version 3.4 is compatible for HW versions IC200SET001-Fx and later.

Versions "BC" and later of the VersaMax Serial to Ethernet Adaptor use different firmware files than Version "AA". Make sure the correct files are used for the version VMSE that is having firmware loaded.

Serial SNP Master to Ethernet SRTP not supported

A serial SNP master connected to a VMSE will only work with another VMSE that connects serial to SNP slave(s). The operation of a serial SNP master connected to a VMSE to allow communication to Ethernet ports on PLCs is not supported.

Serial SNP Master to Serial SNP Slave using two VMSE devices

When initiating communications from a serial SNP master through two VMSE units to a serial SNP slave, any SRTP communications from the VMSE on the serial SNP Slave will halt. This is due to the VMSE switching to a single connection mode to support SNP-to-SNP communications.

Supported Products and Protocols

SNP/SRTP Protocol		Modbus TCP/RTU Protocol	
Product*	**Version**	**Product***	**Version**
VersaMax Nano & Micro	1.0 or greater	VersaMax Nano & Micro	1.0 or greater
VersaMax modular	1.0 or greater	VersaMax modular	1.0 or greater
Series 90* -30	8.2 or greater	Series 90 Micro	3.10 or greater
Series 90-20	**Not Supported**	Series 90-30	8.2 or greater
Series 90-70	**Not Supported**	Series 90-20	**Not Supported**
Series 90 micro	**Not Supported**	Series 90-70	All versions with RTU
VersaPro*	Version 1.1 or greater		
Logicmaster*	Version 9.02 or greater		
Control	Version 2.30		
CIMPLICITY* HMI	Version 4.01 or greater		

* Notes: 1. Any products not listed have not been tested, and compatibility is not known.

2. SNP-X is not supported by VMSE.

Number of Connections Supported

- Up to eight Modbus TCP/IP server channels
- Up to four SRTP server channels
- One connection for Tunneling protocol