

SERM Changes Name to SERI

The SY/MAX Ethernet Rack Master (SERM) debuted at the Schneider Electric Automation & Control University held in December in Chapel Hill, NC. There was confusion surrounding the name and what it implies about the module's functionality. We heard the message and changed the name.

Although the module is the master of the rack in which it is installed, it is a slave with regards to the processor that will be controlling the rack. In order to eliminate the confusion, the SERM will now be known as the SERI, SY/MAX Ethernet Remote Interface. This name better represents what the module does. The module allows the SY/MAX rack in which it is installed to operate as the Ethernet Remote I/O for the processor installed. Read more on the SERI at www.niobrara.com/html/seri_cut.html.

Letter to the Distributors

I would like to thank all the distributors that attended the Schneider Electric Automation & Control University in December. It was a pleasure to meet you and I am looking forward to seeing you at future events. Scott Henson and I appreciated the very positive feedback received concerning NR&D and its products. It is great to know Niobrara R&D is such a well respected company in your industry. We are taking all the information gathered and are determining how we can best incorporate your suggestions into new products that help your customers.

Thank you, again, for your feedback, but do not let it stop there. Don't wait until the next event to ask your question or provide us feedback. If you need any information, give Niobrara R&D a call and we will get you what you need.

Regards,



Chris Shore
Marketing Director

New Addition to Niobrara Staff

Niobrara Research & Development is pleased to announce the hiring of Stacey Tindall to the position of Office Receptionist/Assistant. Stacey comes to us from a retail reception position. She will be answering your calls and directing you where you can get the most help. Stacey will also handle domestic shipping, order entry, and answer questions about order status, so let's keep her busy.

The next time you call into NR&D, give Stacey a big welcome.

CNOE Family Improves, Price Remains Unchanged

The CNOE family is a group of communication modules for Schneider Automation's TSX Compact PLC. The CNOE takes advantage of the Compact communication channel to provide Compact PLC users a long desired Ethernet port.

New Features

- LCD Screen and 5-button keypad
- 10/100BaseT Ethernet port

Features

The new CNOE is easier to use and faster than ever. All CNOEs are upgraded to include the new LCD screen with 5-button keypad. The LCD and keypad allow the user easy access to basic functions such as configuring the IP address or serial port settings. The LCD also aids in diagnostics by displaying status and statistics on the front panel. Blazing fast Ethernet speed is provided by the new 10/100BaseT Ethernet port. The new models are drop-in replacements for the current CNOE models.

Four versions of the CNOE are available. Three versions use a 10/100BaseT Ethernet port. The four available versions are equipped with different configurations of serial ports. Choose the one that best fits your application.

CNOE-311	10/100BaseT Ethernet, no serial ports
CNOE-900	10/100BaseT Ethernet, two switch selectable RS-232 or RS-485 serial ports
CNOE-901	10/100BaseT Ethernet, one RS-485 serial port
CNOS-101	No Ethernet, two switch selectable RS-232 or RS-485 serial ports

The new models come with the same great features of the previous versions.

- issue 0x, 1x, 3x, and 4x MSTR reads from the PLC over Ethernet
- issue 0x and 4x MSTR writes from the PLC over Ethernet
- program the PLC with a PC via Ethernet
- read/write the PLC via Ethernet from any Modbus/TCP compatible device
- communicate peer-to-peer between PLCs over Modbus/TCP Ethernet
- perform I/O scanning via Ethernet

The 10/100BaseT Ethernet Port is SY/MAX 802.3 compatible, which enables the PLC to

- read or write SY/MAX registers over Ethernet;
- communicate with SY/MAX 450 and 650 PLCs directly;
- communicate with other SY/MAX and PowerLogic equipment through NR&D network products;
- communicate with any SY/MAX 802.3 compatible device to read/write PLC registers.

The **CNOS**, the serial port expansion module for the TSX Compact PLC is also receiving the upgrades. The LCD Screen and 5-button keypad are included on all **CNOS-101**s. The **CNOS-101** has two switch selectable RS-232 or RS-485 serial ports and is configurable as either an option module or an I/O module.



CNOE-311



CNOE-900



CNOE-901



CNOS-101

Ordering Information

New modules are drop in replacements for the current modules.

CNOE-311 replaces CNOE-211

CNOE-900 replaces CNOE-800

CNOE-901 replaces CNOE-801

CNOS-101 replaces CNOS-001

The great news for NR&D customers is that prices for the upgraded models remain the same as prices for the current models.

Access the latest information on Niobrara products at www.niobrara.com.

Custom Programming

Custom Programming Available For Your CUCM, MUCM, or QUCM Device

The UCM family of products consists of user programmable modules that can handle communications to any serial device for which the protocol is available. Using Niobrara's powerful yet intuitive UCM programming language, an engineer with moderate programming experience can create complete communications solutions. The UCM's programming language is similar to BASIC in its simplicity, but it contains powerful communication and register manipulation extensions. Programs are also compiled, rather than interpreted by a runtime module, so the UCMs are fast. With a favorite text editor, the user writes the code for the application at hand. The completed program is then compiled and loaded into the UCMs Flash memory. The compiler is included with the purchase of a UCM.

Users without programming experience or resources can request custom programming by Niobrara R&D. When ordering custom programming, NR&D will require the communication protocols for the devices to be attached. Our engineers will also need samples of those devices for test purposes. The versatility expands beyond protocol translation. The custom abilities of the UCMs are only limited by your imagination.

For further details, contact Niobrara R&D at 800-235-6723.

Frequently Asked Questions

Does the QUCM support Unity?

- All NR&D Modules are fully compatible with Unity processors.

Can the QUCM be run stand-alone?

- Yes, any QUCM may be mounted in a QXBP single-slot rack and power supply for operation without a Quantum PLC or large rack.

Are demo units available?

- Yes. All Niobrara R&D products are available on a 30-day test and trial basis. End users need to contact their local distributor.

Niobrara Research & Development Corporation

www.niobrara.com

Important Contact Information

Niobrara Research & Development Corporation

P.O. Box 3418

Joplin, MO 64803

Telephone: 800-235-6723

417-624-8918

Fax: 417-624-8920

All current literature, price list, and software are available for download at...
www.niobrara.com

For additional literature requests, call or e-mail...
marketing@niobrara.com

For pricing, availability, or order status, call or e-mail...
orders@niobrara.com

For pre-sales product selection advice or technical support, call or e-mail...
techsupport@niobrara.com

Sign up for the Niobrara News at www.niobrara.com/html/news2.html

Niobrara Trivia

Which Niobrara R&D module is used to control Allen-Bradley Remote I/O?

Email newsletter@niobrara.com with your answer and contact information.
Three correct responses will be drawn at random and receive a prize.

November Trivia Winners

The winner of November 2007 Niobrara Trivia is..... (drum roll).....

Jeffrey Jerabek, Commonwealth Controls Corporation, Richmond, VA

Thank you to everyone that submitted an answer. Be sure to answer this month's question.
You can't win if you don't play.

