

2013 UTILITY TECHNICAL SYMPOSIUM SERIES

Stay tuned for locations and dates for the 2013 technical symposium series. For each of the past seven years, 150 to 250 customers have attended this valuable series. Focus for 2013 will be customer application papers and tutorials on Cyber Security, IEC 61850, IEC 61131-3, PRC-002 Recording and web-based SCADA and HMI. Certificates will be provided to attendees for the non-commercial application and training portion of each symposium; typically four to six hours.



LATEST SOFTWARE

Orion5/5r Firmware Version: 1.41.0

OrionLX Release: 7.5

Orion NCD3 Version: 3.23

Bitronics 70 Series Firmware and Configurator: 4.01

Bitronics M57x firmware: 3.09

Bitronics 50 Series Firmware: 3.07

BiView: 3.03



GET STAMPED!

Visit us in **Booth 1521** at **DistribuTECH 2013** and tour the demos of our new world, market-ready Orion and Bitronics products for a chance to win a Nest® Thermostat.



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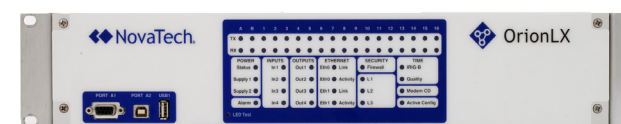
San Diego Convention Center

Booth 1521

Come visit NovaTech in Booth 1521 and see the latest automation products that we have to offer, including:

The OrionLX with IEC 61850

Get the first look at the OrionLX exchanging data with IEC 61850 IEDs. With Orion, IED "CID" files become OrionLX "IED pick lists", and points are simply dragged and dropped from a new expanding tree structure listing all available IED points. Selected 61850 IED points can be presented to any supported Slave protocol such as IEC 60870-5-101 or DNP3. GOOSE subscription and publication are also supported.



OrionLX

"PLC-Style" IEC 61131-3 Math and Logic

Attend a demonstration of "PLC Ladder Logic" in the OrionLX, or any of the other four logic editors in OrionLX IEC 61131-3; Structured Text, Instruction List, Function Block Diagram and Sequential Function Chart. Key OrionLX features include full integration of IEC 61131-3 configuration with all other configuration in NCD, simplified techniques for point selection, and secure sign-on to view real-time, online logic execution.

The New Bitronics 878 DIOD

The DIOD is a Distributed I/O Device designed to complement Orion DDIO and Orion DCIO in applications requiring either IEC 61850 or higher density I/O. Up to 56 I/O points in one compact location (3RU) with any combination of discrete in, discrete out or analog is supported. See article inside for more detail.



878 DIOD

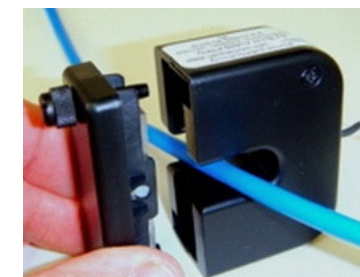


Bitronics Solutions for PRC-002 Recording

Bitronics 70 Series products provide a complete PRC-002 solution for all three parts of the standard:

- Dynamic Disturbance Recording
- 4ms SOE Recording
- Fault Recording

A split core option reduces installation time in retrofits.



Split Core CT

Bitronics 50 Series SCADA Panel Metering Solutions

See the complete line of Bitronics metering solutions, including the M650 single-display, the M653 triple-display, the M651 display-less transducer version, and the M350 ammeters and voltmeters. All 50 Series meters provide "Simple Mode" set-up through front panel plus advanced web-based configuration tools, outstanding 3-line, 5-digit display with automatic indication of engineering units, and very high accuracy in a rugged utility-grade package.



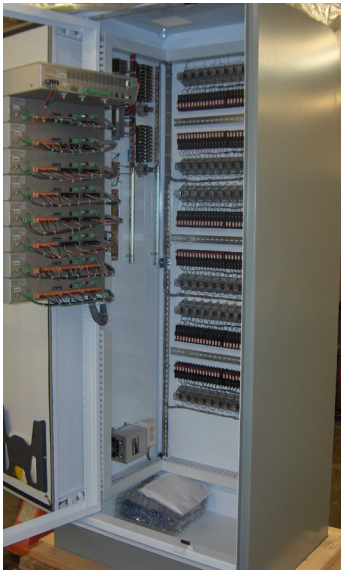
M653

DistribuTECH 2013 (cover story continued)

OrionLX Direct Video VGA Monitor Support
See how the substation HMI PC can be eliminated – along with the associated NERC CIP concerns – with OrionLX Direct Video option, comprised of a new Multimedia Board with VGA port, audio port, USB ports and a third Ethernet port (with separate NIC). The pages viewable as “Direct Video” are actually the same OrionLX pages that can alternatively be viewed as webpages, including the OrionLX online configuration and diagnostic pages, alarm pages, trending pages, Sequence of Events pages and custom user-designed pages.



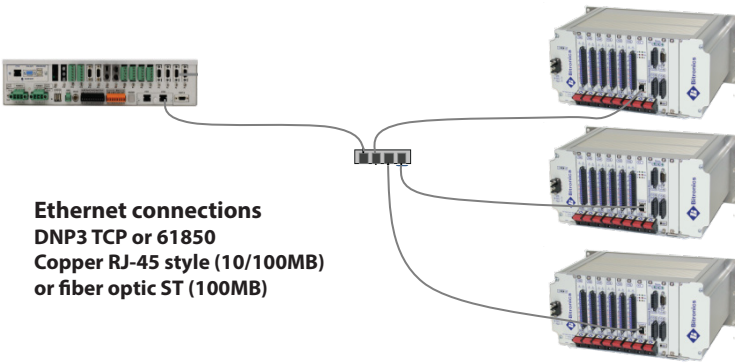
Orion Packaged RTU Assembly



NovaTech Packaged SCADA RTU Assemblies
Check out a complete free-standing OrionLX RTU assembly, including functional HMI, DDIO, DCIO and IEDs. Learn about NovaTech’s capabilities to engineer, package, install and commission RTU assemblies.

Bitronics® 70 Series Update

New Host Module for M87x Family Released
A new host processor, the H12, was released effective January 2, 2013 and is shipping in place of the H11 module in new orders for M87x. The base version will be equipped with 256MB flash memory, and options for 512MB and 1GB are available. There are options to add Ethernet built into the module as either E1 (RJ45 10BaseT/100BaseTX), or E3, (RJ45 10BaseT/100BaseTX plus 100BaseFX ST fiber). These replace the separate P10 and P12 Ethernet modules used with the previous H11 host module. A new IEC 61850 stack is included in the accompanying firmware release, and this new host processor makes it easier to add additional upgrades in the future.



The Orion LX interfaces to the Bitronics DIOD via Ethernet or serial communications

Release of the 878 Distributed I/O Device (DIOD)
Offering self-powered, distributed I/O for substation equipment monitoring and fast automation and control applications in conjunction with the OrionLX, the 878 DIOD provides combinations of digital inputs, digital outputs and transducer inputs with all I/O accessible via IEC 61850 or DNP3 protocols.

In the largest of three available chassis, a maximum of 56 digital inputs, 24 digital outputs, or 48 transducer inputs are supported in the serial-only version (48 digital inputs, 20 digital outputs or 40 transducer outputs with Ethernet). The digital inputs are fully isolated from each other, and are jumper selectable for input level and threshold (150V dc input/15V dc threshold or 300V dc input/70V dc threshold). The digital outputs employ protection and control industry standard-type output relays and circuitry to ensure system reliability and are jumper selectable for desired output state (normally open or closed) and for relay state (energized or de-energized). The transducer inputs are available in eight-input modules that are jumper selectable for 0–10V dc, 0–1mA, or 4–20mA ranges. On-board Boolean logic can simplify schemes requiring control at protection speeds. The 878 complements the Orion DDIO and DCIO in applications requiring either IEC 61850 or higher density of I/O.

Feature: OrionLX FileMover

The new “FileMover” feature is now available on all OrionLXs release 7.4 or later. FileMover enables files resident on the OrionLX (SEL® Event Reports, .csv SOE files, etc) to be selected and scheduled for automatic dissemination to a remote ftp site. Available configuration settings are summarized below:

hostname orionlx
SetAllOnline.ncd is running.
This Orion is unlocked. (Lock | Logout)

HomeDataValuesDevicesAlarmsArchiveSystemLogsFilesSettingsContact

Settings / Scheduler / New Cron Job

Current Config File : root

* indicates a required field

Task Information

Task Description: *

User provided name of the "task"

Schedule Date/Time

Month: JanuaryFebruaryMarchAprilMayJuneJuly

Day of Month: 1234567

Day of Week: SundayMondayTuesdayWednesdayThursdayFridaySaturday

Hours: 00010203040506

Minutes: 00010203040506

Settings for when file should be moved

Select how often you want the task to repeat:

No RepeatNo RepeatNo RepeatNo RepeatNo Repeat

ftp or secure sftp supported

Filemover Settings

☒ ftp☐ sftp

Path to directory or to file

Source

Path:

Location of Private Key for encryption

Private Key:

Where the file will be transferred

Destination

IP Address:

21

Port:

/

Username:

Login to destination device

Password:

"Delete on Success" option

Delete on success:☐

Save