

Your Real Time Monitoring and Control Company



DNP 3.0 Open Protocol Support



Large Expandable IED Library



Software Configurable

Need to monitor & control new equipment remotely or replace aging technology?

Our 9300 RTU Family is designed for easy configuration and expansion to meet your evolving needs.

9300 RTU Family Features

Hardware:

- 9310 RTU for small or pole mount applications
- 9300 card cage design allows modular selection of I/O card types, including Indication, Control, DC Analog, Transducerless AC Analog, and IEDs
- 6 Slot design for small applications
- 10 Slot 19" Rack Mount design for larger configurations
- Optional Fiber Optic Distributed Chassis design
- Power Supply Voltages:
 - VDC: 12, 24, 48, 125
 - VAC: 120, 220 with battery back up
- 386 processor with RAM memory
- IEEE / ANSI C37.90.1 SWC Surge protection

Firmware:

- Self Scanning, Real-time Exception reporting
- Software Configurable Parameters
- Updates downloadable into Flash Memory
- Built-in internal diagnostic card alarms and LEDs
- Optional 1 ms Sequence of Events (SOE) resolution

Communications:

- On board RS-232 and internal 1200 bps Modem
- 10/100 Mbs WAN card – DNP 3.0, TCP/IP, Ethernet
- Dial-up Communication Port
- Expandable to 4 separate master Communication ports
- Software Configurable Modes & Data rates

IED support:

- Generic DNP 3.0 configuration tool kit
- Protocols: DNP 3.0, Modbus, PG&E 2179 and many more
- Cooper, SEL, ABB, Siemens and many others
- Onboard Fiber, RS-232, and RS-485 connectors

RTU Protocols:

- DNP 3.0
- Conitel 2020
- L&G 8979
- Cannon IDLC
- Harris 5000
- Large Library Available

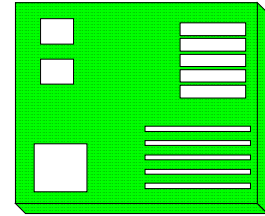
Service:

- Repair facility
- Help Desk support
- Web site updates and FAQs

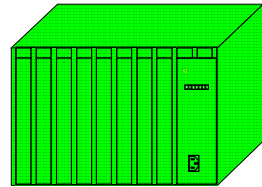
Installation:

- Onsite or phone support
- 19 " rack mountable
- Field wiring conversion kits

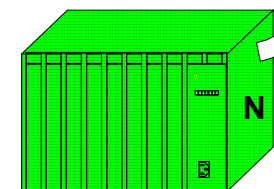
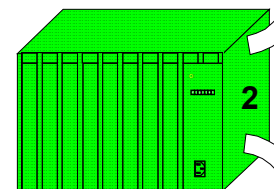
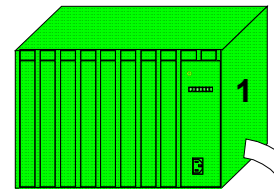
Select the 9310 Single Board RTU for small or pole mount applications



Choose our 9300 6 slot or 10 slot RTU for larger applications
Just add the cards you need for your application !



Add additional chassis and cards for future expansion or larger applications



Easily match your I/O needs through our modular design

9300 Capacity

The 9300 RTU supports up to:

- 1024 Indication inputs
- 1024 Sequence of Events inputs
- 512 SBO Relay Control outputs
 - 50 Raise/Lower Controls
- 512 Analog inputs (combination AC and DC analog inputs)
- 256 Analog outputs
- 256 Pulse Accumulators
 - 4 RTU to Master Comm. channels
- 16 IED Interface ports
 - Internal 1200 bps Modem
 - Dial-up Modem

9310 Capacity

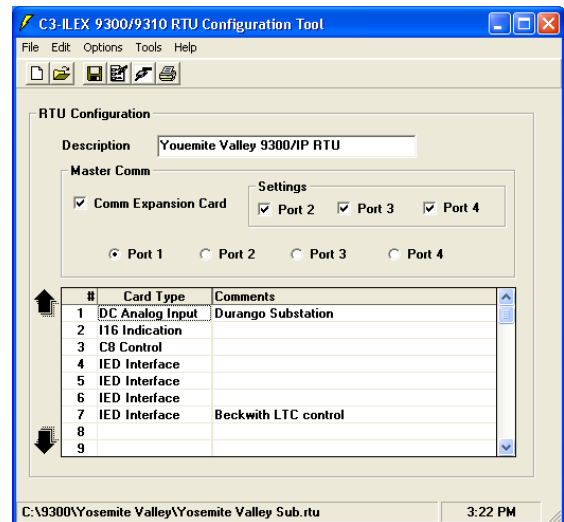
The 9310 RTU supports :

- 8 Indication or Accumulator inputs
- 4 SBO Controls or 8 relays
- 8 DC analog inputs
- 120 VAC or 12 VDC power
- Onboard battery charger
- RS-232 Comm. Interface
- IED Interface ports
- 1200 bps Modem
- Dial-up Modem

RTU Configuration Software

Setup, define, and maintain your RTU Configuration with our easy-to-use software.

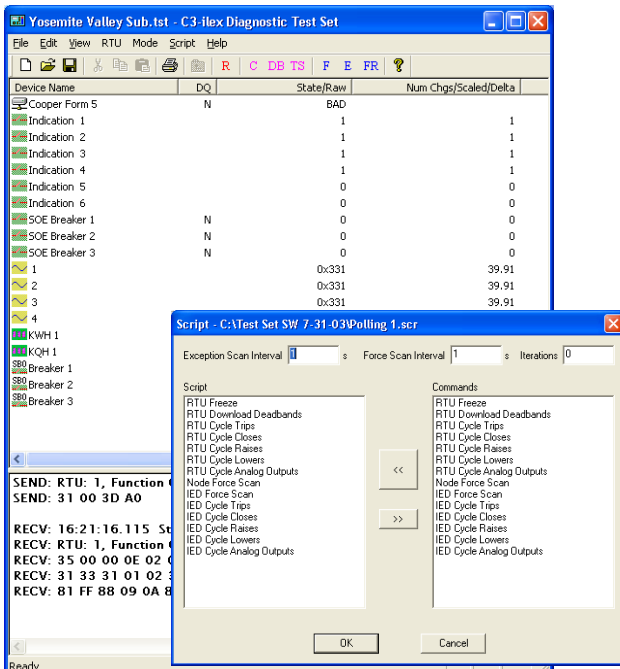
- Up & down-load data to and from the RTU
- Store individual RTU Configuration files
- Define Multiple Master communication Ports with separate Protocols for each port
- Define individual points with a separate setup page
- Select & define individual IED points
- Generic DNP 3.0 Tool Kit
- Software available on CD or from our Web site



Diagnostic Test Set Software

Provides a user friendly approach to diagnosing the health of RTU, Communication links, and Master connections.

- Tests all RTU functions, provides individual RTU card diagnostics, and listens in on communications with the master
- Allows the user to create a test database including Multiple IEDs
- Provides visual confirmation of data transmissions
- Displays Sent & Received messages both to and from the RTU
- Connects via RS-232 or Modem



Your Real-time Monitoring and Control Company

Control



Consulting

Custom Projects

C3-ilex provides high-quality products and services for the real time monitoring and control market place. Our employees are highly skilled in a variety of technologies and applications. Our products span from data collection and control to end user applications for system management. We also offer numerous services to help integrate legacy systems with new technologies. We welcome the opportunity to learn about your technology needs and to create cost effective solutions to achieve your goals.

For more information on **C3-ilex** products and services, please find us on the web at www.c3ilex.com or contact us at:

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