The CIMScan SCADA system’s eLink controller forms the heart of an incredibly flexible, yet easy to set up and use, RTU. Applications include public and private utilities, oil and gas production, remote monitoring, and industrial process control. The eLink is actually a sophisticated communications controller that provides the real-time interface between a host SCADA system and intelligent I/O devices such as CIMScan’s I/O Pods.

I/O Pods are low cost, flexible, intelligent, distributed I/O devices that provide the primary interface to the process being monitored or controlled. Both analog and digital Pods are available and communicate with eLink controllers over the multi-drop PodNet port (RS-485). All of the I/O Pods are powered through PodNet.

In addition to the PodNet port, the internal PC104 bus supports the addition of high speed analog and digital I/O, as well as adapters for interfacing with CANbus, DeviceNet, ProfiBus, and numerous other field busses. HART devices can also be communicated with by using a HART adapter attached to one of the standard serial ports.

**FEATURES**
- Easy to Configure
- Ethernet Compatible
- TCP/IP Host Protocol
- Wide Operating Temperature Range
- Operates on 10-30 Vdc
- Low Power Consumption
- Uses Low Cost Distributed I/O Pods
- Multi-tasking "C" & Function Block Programming
- Modbus Support

**eLink CONTROLLER DIMENSIONS**

- PodNet Port Ethernet Port (REAR)
- Casted Aluminum Enclosure
- Optional Ports for Bar Code Readers, Instruments, Controllers, PLCs, etc.
- DIN Rail Mountable
- Serial Expansion Ports
- Digital I/O & Alarm Output (Relay)

**eLink SPECIFICATIONS**

- Operating Temp. Range: -40~70 °C
- Relative Humidity: 5-95%
- Operating Voltage: 10-30 Vdc
- Maximum Power Required: 1.5 W.
- Memory & Clock: Battery
- RS-485 PodNet Ports: 1
- RS-232 Serial Ports: 2
- LAN Interface Port: 100-Base-T
- Primary Protocol: TCP/IP
- Alternate Protocol: Modbus
- Serial Expansion Ports: 2
- Digital I/O: 3-In, 2-Out
- Maximum Input Voltage: 36 Vdc
- Output Drive (open coll.): 750 ma.
- Alarm Relay: SPDT
- Indicators: 4 LED

**TYPICAL MULTIPLE WELL SITE APPLICATION**

- NEMA-4X ENCLOSURE
- eLink RTU
- 24 VDC Power Supply
- Multi-Drop Fiber Optic Interface
- Down Stream Fiber Optic Link
- Up Stream Fiber Optic Link
- Dual Twisted Pair Cable (Typically Buried)
- CIMScan I/O Pods
- Small NEMA-4 Enclosure
- Temperature
- Choke Valve Position
- Choke Valve Control
- Cathodic Protection Voltage
- Oil Pressure
- I/O Pods located at each wellhead
**eLINK I/O CONFIGURATION**

1. Configure the TCP/IP Network Interface
2. Add a Device
3. Name the Device
4. Select the Type of I/O Device
5. Select the Local Network or Port
6. Set the Device Address & Scan Rate
7. Edit the Channel Information

- Create Meaningful Channel Tags
- "Report by Exception" controlled by DP
- Set Scale & Offset as necessary (analog)

**STRAIGHTFORWARD ARCHITECTURE with SOPHISTICATED PROGRAMMING**

```
"C" Program
  Tag List
    Compiler
      BIN
        Base Firmware
```

```
Real-Time OS
  eLink Firmware
```

```
Host Link Manager
  TCP/IP LAN
```

```
CIMScan Database
```

**DISTRIBUTED BY**

CIMTechniques, Inc.
1215 Prince Street
Beaufort, SC 29902
(800) 246-9456
(843) 521-9897
sales@cimestructures.com
(843) 521-9818 FAX

© Copyright 2000 CIMTechniques, Inc. All rights Reserved.