The CIMScan eLink controller forms the heart of an incredibly flexible, yet easy to set up and use distributed I/O system for facilities or process monitoring and supervisory control applications. ELinks are capable of managing a wide range of locally connected I/O devices such as CIMTechniques’ I/O Pods, smart sensors, instruments, controllers, etc. The eLink periodically polls these devices and requests new measurement data while looking for a change outside of a user specified resolution. If a change is detected, the new value is packed in a message with other channel values and transferred to the CIMScan host over the user’s existing Local Area Network (LAN). This “report by exception” capability significantly reduces traffic on the LAN.

The eLink-III (DA-05) also has the ability to store measurements during a network outage, then transfer the data to the CIMScan host when operation is restored. CIMScan will automatically update the current real-time database, as well as any affected log files (historical data).

### eLINK CONTROLLER DIMENSIONS

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

### eLINK SPECIFICATIONS

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

### TYPICAL eLink APPLICATION

- CIMScan-Ra Server
- I/O Pods
- Sensors
- Production
- Security
- QA
- Maintenance
- Instruments & Controllers
- Ethernet LAN
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
8. Configure the TCP/IP Network Interface

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

STRAIGHTFORWARD ARCHITECTURE

CIMScan

Pipe Manager
Standard Drivers
Custom Drivers
I/O Database
Limit Alarms
Data Buffer
Local Alarm Outputs

eLink

RS-232 Serial Ports (2)
Instruments PLC’s, etc.

ORDERING INFORMATION

DA-05 Local data buffering and alarm processing
DA-09 High speed I/O processing

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