**General Information**

The Paradigm Architectural Control Processor is designed for easy interaction and rapid response. The Paradigm ACP’s built-in memory and processing power works with vast amounts of lighting control data and is fast enough to process 1024 simultaneous fades over any of its native protocols.

**Applications**
- Churches
- Schools
- Restaurants
- Hotels
- Museums
- Casinos
- Ballrooms

**Features**
- Designed for use in Unison DRd and ERn enclosures
- Point of Control Interface – easy to read system display shows the user pertinent system information
- LinkConnect – using Echelon® LonTalk® protocol with LinkPower, the two wire topology-free system gives you the freedom to put station where you need them
- NetConnect – making use of low-cost, easy to install Cat5/5e with PoE to connect touchscreen stations and other devices to a networked Paradigm System
- USBConnect – support for USB flash drives for configuration upload and download
- QuickLoad – SD Media support for upload, and backup of configuration data
- LightDesigner™ Access – Web browser interface for easy modification, activation and monitoring of your system configuration and status
- LocalAccess – user control at the interface, including creation of timed events and editing presets or sequences
- Secure-it Access Control – multiple levels of secure user access at the interface

**Ordering Information**

**Paradigm Architectural Control Processor**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-ACP</td>
<td>Unison Paradigm Architectural Control Processor</td>
</tr>
</tbody>
</table>

**Compatible Power and Control Enclosures**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRd</td>
<td>Unison Dimming Enclosure (12 and 24 ckers)</td>
</tr>
<tr>
<td>ERn</td>
<td>Unison External Control Enclosure</td>
</tr>
</tbody>
</table>

**Unison Paradigm System Accessories**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-SPM</td>
<td>Unison Paradigm Station Power Module</td>
</tr>
<tr>
<td>P-REP</td>
<td>Unison Paradigm ERn Repeater Module</td>
</tr>
<tr>
<td>P-DREP</td>
<td>Unison Paradigm ERn Dual Repeater Module</td>
</tr>
<tr>
<td>P-REP-W</td>
<td>Unison Paradigm Wall-mount Repeater</td>
</tr>
<tr>
<td>P-DREP-W</td>
<td>Unison Paradigm Wall-mount Dual Repeater</td>
</tr>
<tr>
<td>P-REP-RM</td>
<td>Unison Paradigm Rack-mount Repeater</td>
</tr>
<tr>
<td>P-DREP-RM</td>
<td>Unison Paradigm Rack-mount Dual Repeater</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

**MECHANICAL**
- Designed for use in the Unison DRd Rack Enclosure Series and Unison ERn Control Enclosure Series
- Microprocessor based, solid state technology to provide multi-scene lighting and building controls
- Fully contained plug in module with no discrete wire connections
- Tool free installation
- Front panel user interface with backlit LCD and alpha-numeric button panel
- Support of RJ-45 Ethernet, Secure Digital (SD) and Universal Serial Bus (USB) media on the front panel

**ELECTRICAL**
- No discrete wiring connections required for use in a dimming or control enclosure
- Echelon® LinkPower communications with remote devices, including button stations, button/fader stations, touchscreen stations, sensors, and third party LonMARK compliant products
- Hot swapable
- System configuration and programming information stored in flash memory
- Support of ESTA BSR E1.17 Advanced Control Networks (ACN) and ESTA BSR E1.31 (sACN) Protocols
- Supports EIA-RS232 serial protocol for bi-directional command and communication with third-party equipment
- Two discrete ESTA DMX512A ports, configurable as input or output ports
- Four dry contact closure inputs
- Four contact closure outputs, rated 1A@30VDC
- UL and cUL LISTED, CE marked

**THERMAL**
- Ambient room temperature: 0-40°C / 32-104°F
- Ambient humidity: 10-90% non-condensing

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**SPECIFICATIONS**

**FUNCTIONAL**

**Capacity**
- Supports 1024 channels of control per control processor
- Supports up to 62 stations per control processor

**System**
- Net3 system interoperability including sACN
- Network Time Protocol for real-time clock synchronization supporting real and astronomical events
- Supports 2 physical DMX ports, each configurable as an input or output
- Provides configuration of DRd dimming operations
- Up to 20 control processors per system
- Addition of processors to a system proportionately increases the overall capacities

**Serial Input/Output**
- 8-bit word length, parity selection and 1 or 2 stop bits
- Fully customizable input and output messages
- Bi-directional

**Configuration Data**
- Remote upload from a connected PC running LightDesigner or another connected Paradigm ACP
- Stored in removable solid state memory for easy transfer to another Paradigm ACP

**Local User Interface**
- Control functionality for control channels, zones, fixtures, groups, presets, macros, walls and sequences
- Ability to schedule timed events (add/edit/delete)
- Transfer of configuration using removable media
- Transfer of configuration to and from touchscreen stations using removable media

**User Access Controls**
- 2 User accounts – Administrator and User, local to each processor

**Web User Interface**
- Internal web server accessible via Ethernet port
- Activate and deactivate presets
- Schedule timed events (add/edit/delete)
- Displays status information and log files
- Configuration of processor settings

**Diagnostics**
- Standard and Critical Event logging

**Stations**
- Connected to a Paradigm processor via topology-free LinkConnect, or star-topology NetConnect
- Discovery and binding accomplished from the local user interface or LightDesigner

**Operation**
- Configurable DMX output refresh rate
- Support for 16-bit DMX attributes
- User configurable arbitration for multiple internal and external source data
TYPICAL SYSTEM RISER – DRd WITH PARADIGM CONTROL

PC for LightDesigner and other ETC software

Remote Video Interface

Net3 RVI

Control Console

Ion

Paradigm Touchscreen

P-LCD

ETC Net3
Belden 1583A

To 3rd party serial device

Serial RS232
Belden 9729

Belden 9729

LinkConnect
Belden 8477(1) #14
AuxPower
(2) #16 AWG

Belden 9729

LinkConnect
Belden 8471(1) #14

DMX

Net3 Gateway N34G

To DMX devices

ETC Net3
Belden 1583A

SmartSwitch SS24

Sensor+
SR48+

ETC Net3

To DMX devices

DMX

LinkConnect
Belden 8471(1) #14

Belden 9729

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ETC Net3
Belden 1583A

SmartSwitch SS24

Sensor+
SR48+
**PHYSICAL**

Paradigm® Architectural Control Processor

Unison® Control Series

**P-ACP Dimensions**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-ACP</td>
<td>2.6</td>
<td>66</td>
<td>12.2</td>
</tr>
</tbody>
</table>

**P-ACP Weights**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WEIGHT</th>
<th>SHIPPING WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-ACP</td>
<td>3.8</td>
<td>4.8</td>
</tr>
<tr>
<td></td>
<td>1.72</td>
<td>2.18</td>
</tr>
</tbody>
</table>

*Weights and dimensions typical*