Limited Motion Control Unit (LMCU)

LMCU Features & Benefits

- Cost-effective, affordable solution to solve the problems associated with aging, obsolete, and unsupported 886x antenna controllers
- Supports hundreds of antenna systems that utilize the 886x family of Control Systems
- Simplified design offers enhanced MTBF and maintainability and servicing
- Solution includes site survey for deployment requirements and repair/upgrade opportunities for ongoing continuity of operations
- Supports GPS time-based operation for hyper-accurate synchronization
- Includes a built-in beacon receiver
- A standard ETHERNET interface simplifies interfacing to your existing installed systems’ computer GUI displays
- No support required from your OEM equipment provider
- Offers Service Life Extension for your existing investments by providing support for OEM for years to come
- Available warranty support (in-field or return to factory)

LMCU at-a-glance

- Pedestal and Earth Coordinate Systems Monitoring and Control
- Hardware and Software Fault Indicators
- System Warning Indicators
- Axis Interlocks
- Servo Interlocks
- Transmit Interlocks
- Intelligent Drive Activation
- Servo Power Dropouts
- Software Travel Limits

We’ve Got Your Track™
**Limited Motion Control Unit (LMCU)**

### LMCU Specifications Operator Controls and Indicators

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>Remote Control</strong></td>
<td>10/100 Base-TX Ethernet Web-based Graphical User Interface (GUI)</td>
</tr>
<tr>
<td><strong>Temperature Range</strong></td>
<td>Operational -30° F to + 130° F. (-37.2° C to 57.2°C) Humidity 0 to 85% (Non Condensing)</td>
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<tr>
<td><strong>Electrical</strong></td>
<td>Input Voltage 220 / 230 VAC Power Consumption 350 Watts (nominal)</td>
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<td><strong>Mechanical</strong></td>
<td>Weight 150 lb :68.18 kg (est.) Dimensions (WxHxD) 31.5x49.8x11.8 in : 800x1264x299.2 mm Finish Stainless Steel, NEMA 4X Rated, IP66, IK08</td>
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<tr>
<td><strong>Time Synchronization</strong></td>
<td>Internal Clock Standard Network Time Protocol (NTP) (Requires customer-furnished network time server on a LAN) 1PPS Standard GPS Standard Graphics User Interface (GUI) (Requires customer-furnished PC for web-based Monitoring and Control)</td>
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### ACU Control and Monitoring Features

- Power Input, 24 or 48VDC
- HTML5 Graphical User Interface (GUI) over an Ethernet link
- One built-in tracking receiver for step-tracking and signal strength display
- Built-in GPS Receiver
- Three tracking receiver interfaces for step-tracking and signal strength display
- Two LNB Variable Power Supplies
- Two identical built-in induction motor drives
- EnDat 2.2 interface for three-position encoders
- Programamable I/O, Discreet indicators and switches or monitor and control of antenna hardware such as RF switches and emergency stop switches
- Two Contact Closure Outputs
- One Analog Input for a position potentiometer
- Two Analog Outputs, ±10VDC 2ma
- Temperature Monitor for internal and ambient
- E-Stop Interface
- Two Ethernet ports

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