Ceraun 1 and Ceraun 2
Outdoor power supply and battery backup unit

The Ceraun 1 and Ceraun 2 outdoor power supply and battery backup units provide reliable PoE (power over Ethernet) power for Tropos outdoor mesh routers, wired clients and network backhaul equipment.

Ceraun 1 is designed to power a Tropos mesh router and a wired client such as a video camera or AMI collector. Ceraun 2 is designed to power a Tropos mesh router and a network backhaul device such as a point-to-point radio, point-to-multipoint radio or fiber multiplexer.

The battery in either Ceraun 1 or Ceraun 2 will provide backup power to both the Tropos router and the wired client or network backhaul device.

If the AC power input to the Ceraun 1 or Ceraun 2 fails, it provides 24 VDC to the connected Tropos router and 48 VDC to the wired client. The transition from 48 VDC to 24 VDC is detected by the Tropos router, which sends an alarm trap to the Supros network management system indicating AC power has failed.

The length of time that the unit can power the router and its client depends on a number of factors, including the duty cycle of the attached Tropos router, the actual power consumption of the client, the age of the battery and the ambient temperature of the installation. The Ceraun’s internal battery is field replaceable.

**Expected backup time** (battery capacity and backup time decreases as ambient temperature increases or decreases)
# Technical data

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Devices</th>
<th>Power consumption</th>
<th>Backup time at +20° C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worst case (router plus wired client)</td>
<td>Router</td>
<td>18W</td>
<td>2.44 hours</td>
</tr>
<tr>
<td></td>
<td>Wired client</td>
<td>15W</td>
<td></td>
</tr>
<tr>
<td>Expected case (router plus wired client)</td>
<td>Router</td>
<td>8W</td>
<td>4.02 hours</td>
</tr>
<tr>
<td></td>
<td>Wired client</td>
<td>15W</td>
<td></td>
</tr>
<tr>
<td>Worst case (router only)</td>
<td>Router</td>
<td>18W</td>
<td>3.47 hours</td>
</tr>
<tr>
<td>Expected case (router only)</td>
<td>Router</td>
<td>8W</td>
<td>7.80 hours</td>
</tr>
</tbody>
</table>

### Power

- **Input voltage**: 120-240VAC 50/60Hz
- **Output voltage on AC power**: 48 VDC
- **Output voltage on battery**: 24 VDC to router, 48 VDC to wired client

### Dimensions

- **Dimensions (without mounting bracket)**: 9.8” x 8.19” x 4” (248 mm x 207 mm x 101 mm)
- **Dimensions (without mounting bracket)**: 9.8” x 8.19” x 6.29” (248 mm x 207 mm x 159 mm)
- **Weight**: 5.10 lbs. (2.32 kg)

### Environmental specifications

- **Operating temperature range**: -40°C to 60°C (-40°F to +140°F)
- **Storage temperature range**: -40°C to 85°C (-40°F to +185°F)
- **Weather rating**: UL579/IEC 60529 IP54/ NEMA 4X
- **Wind survivability**: >165 mph (264 kph)
- **Wind loading (165 mph/264 kph)**: <300 Newtons
- **Salt fog rust resistance**: ASTM B117
- **Shock & vibration**: ETSI 300-19-2-4 spec T4.1E class 4M3
- **Transportation**: ISTA 2A

### Interfaces

- Two IEEE 802.3u autosensing 10/100BASE-T Ethernet ports with RJ-45 connectors

### Batteries

- **Type**: Lithium ion
- **Voltage**: 24 VDC
- **Capacity**: 2.6 Ampere hours

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