

PPU - Perpetual Power Unit

Securing Remote Infrastructure

The **Perpetual Power Unit (PPU)** provides the hardware and software components necessary for the rapid, secure, and reliable deployment of cameras and sensors in remote environments. The PPU is changing the way remote deployments are implemented. With a single cost effective platform that provides power for cameras, sensor processing, secure communications, and long battery backup, deployment of a remote site is simplified and the stability and reliability of operation is greatly improved. The PPU provides the resources necessary to implement sites consisting of a mix of equipment from many manufacturers. It has been the center point for years in installations around the world, protecting critical assets.

Four models of the PPU are available: PPU1, PPU2, PPU2 Solar, and PPU3 Solar. These models cover a wide range of challenging site environments. Whether the site has constant power, timed AC power, or no power at all, the PPU provides the solution. Likewise, to meet any communications demands, the PPUs offer capabilities for Ethernet, fiber, cellular, wireless, custom, and/or end user provided communications.

For larger networks, we offer the PPU Enterprise Server. This is an absolute key part of running a successful large network. As the number of sites grows past approximately ten, network management becomes exponentially more difficult. Without a tool to monitor and proactively manage the sites, performance will suffer. The PPU Enterprise Server monitors each site via an encrypted connection and immediately notifies appropriate personnel when any potential problems occur. All the current data for all the sites is always at your fingertips—from highly technical data like voltage levels to mission critical functions like security alerts.

Common Applications: Pipelines, Waste Water Facilities, Railroads, Power Grids, Airports, Military Bases, Fence Lines, Schools, Industrial Plants, and similar infrastructure.



PPU2

The PPU2 has a slightly larger enclosure than the PPU1. This provides extra room to house additional equipment other than the POE switch and hardened cellular router. This equipment may include devices such as customer storage devices, sensor boards, communications gear, etc. The PPU2 has a single 12V 104Ah battery for long backup and timed power, and supplies 12VDC, 24VDC, and 48VDC to any devices requiring DC power (120VAC available for AC devices).

Power Specifications

- PPU2 Input: 120/240/277VAC
- PPU2 Output: 12/24/48VDC
- PPU2 Output: 120VAC
- PoE+ 4x 802.3af/at 30 watts per port

Power Solutions

- Constant: Line conditioning
- Intermittent: Light poles - 24/7 operation
- Unreliable: 15 to 30 hours battery backup

Secure Communications

- Topology agnostic
- Ethernet, Fiber optic MM/SM, LTE, Wireless

Hardened 4G/LTE Router

- Software defined multi-carrier radio
- Verizon, AT&T, and Sprint (Certified)
- PPU resets equipment to restore connection
- PPU provides on demand firewall control

Hardened Ethernet Switch

- 6 Port Gigabit Ethernet Switch
- 4 PoE+ Gigabit Ethernet Ports 802.3af/at
- 1 SFP Slot - SM/MM Fiber optic interface
- Redundant power input

Site Installation Advantages

- Reduces integration time and costs
- Field proven technology enhances long term reliability
- Provides secure communication alternatives
- Hardened solution: -20C - +50C

Cameras and Sensors

- Supports most IP cameras
- Combines camera and physical sensor input for high quality alerts
- Automatic PTZ preset on event
- Automatic camera snapshot on event
- ONVIF camera detection

Notifications

- Loss of site power
- Operational state of cameras and devices
- Communications status
- Security events
- System events

PPU Enterprise Server

- Used with large networks
- Centralized real-time network monitoring
- Automatic email notifications for security and system alerts supporting up to 100 users
- Browser based - no special software required

PPU2 Physical Specifications

- Case Dimensions: 18" x 18" x 18"
- NEMA 3R vented aluminum enclosure
- Two ½" and ¾" NPT conduit knockouts
- Single 104Ah deep cycle battery
- Weight -90 lbs