



Ventev portfolio of power solutions for outdoor wireless radio deployments:



**Outdoor Wi-Fi**



**Smart Cities  
Surveillance**



**Smart Grid  
Wireless Backhaul**



**Smart Farming**



**SCADA Networks**

# Ensure reliable power for LPWAN, Cellular, SCADA

## IoT Power Systems

*For outdoor wireless radio deployments*



### Outdoor Wi-Fi

*Power and reliability for Wi-Fi access points*

### Wireless Surveillance

*Power and protect the LTE backhaul cell modem and power the camera*



### Smart Grid

*Backhaul smart meter data over a cellular network*

### Smart Farming

*Enclosure systems for LPWAN Gateway radio deployments in remote locations*



### SCADA Networks

*Power and protect a SCADA radio in an Oil & Gas drill site backhauling critical sensor data*



## AC POWER AVAILABLE

## AC/DC Power Systems

Powers and protects electronics in outdoor environments and converts site AC power to DC power or PoE+ for most electronics.



### Common Uses

- **Outdoor Wi-Fi** - Converts 120VAC to 1-2 PoE ports for outdoor access points
- **Smart Grid**- Collector point systems for LTE backhaul radios with enclosure I/O ports for antenna cables
- **Smart Farming**- LPWAN Gateway radio systems providing 12VDC power with accommodations for external 900MHz and LTE antennas
- **SCADA Networks** - Protects SCADA radio and provides 12VDC with UPS and integrated antennas

### Benefits and Features

- **Optional integrated components:**
  - Wireless radios
  - Network switches
  - PoE injectors
  - Integrated Antennas (LTE, GPS, ISM, Wi-Fi)
  - Battery backup (UPS)
- **Converts AC power to DC power**
- **NEMA-rated enclosures protect equipment**
- **Delivers fully-integrated** for trouble-free installation

### Specifications

HxWxD .....12x10x6" NEMA 4X  
Input power .....90-260VAC  
Output power ..... 12VDC, 60 Watts

# and Wi-Fi Deployments

## AC POWER INTERMITTENTLY AVAILABLE

### Intermittent Power Extender

Enables access points, cameras or other PoE devices to operate even when the light-pole has intermittent AC power.



#### Common Uses

- **Wireless Surveillance**- Power and protect the LTE backhaul cell modem and power the camera
- **Outdoor Wi-Fi** - Power and reliability for Wi-Fi access points

#### Benefits and Features

- **Provides seamless power transfer 24/7**  
Daytime: Power from battery for up to 18 hrs  
Nighttime: Power from AC and fast recharge within 6 hrs
- **Systems available to convert 90-520 VAC site power to 1-3 ports PoE/PoE+**
- **NEMA 4X Enclosure protects and secures**

#### Specifications

Input Power ..... 90-520VAC  
Output..... PoE+ 1-3 ports typical  
From Battery..... 18 hrs  
From AC..... 6 hrs  
Enclosure..... Aluminum  
HxWxD..... 18 x 16 x10” Aluminum NEMA

## AC POWER NOT AVAILABLE

### Solar Power Systems

Stand-alone Solar Power Systems provide continuous power for outdoor sites with no AC power.



#### Common Uses

- **Outdoor Wi-Fi** - Power and reliability for Wi-Fi access points
- **SCADA Networks** - Power and protect SCADA radio in an oil and gas site backhauling critical sensor data in remote locations
- **Smart Farming**- LPWAN Gateway radios systems providing 12VDC power with accommodations for external 900MHz and LTE antennas

#### Benefits and Features

- **Reliable power throughout most of the U.S.**
- **Rugged construction** Proven, long-lasting PSOC lead acid batteries and corrosion-resistant materials provide many years of autonomous service in even the harshest environments.
- **Available in 3 output capacities**  
*MicroSolar*-for radios drawing  $\leq 3$ W/hr, ex.LPWAN radios  
*UltraSolar*- for radios drawing  $\leq 7.5$ W/hr, ex. LTE cell modems or SCADA radios  
*MaxSolar*- for radios drawing  $\leq 18$  W/hr., ex. outdoor mesh Wi-Fi access points

#### Specifications

Output .....12VDC  
Power..... 3, 7.5 or 18 watts/hr  
Enclosure / Array sizes:  
MicroSolar ..... 12x10x6” / 24x12x2”  
UltraSolar .....27x18x15”/ 60x26x2”  
MaxSolar .....27x18x15”/ 60x52x2”  
Autonomy .....5 Days

# Why choose **Ventev**?



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Ventev's dedicated team is available to offer unparalleled knowledge and support for any wireless application.

## Ecosystem of Products for Radios:

- **Enclosures:** for power conversion and/or protection for networking equipment
- **Antennas & jumpers** for sensor data reception and transmitting backhaul data
- **Mounts**

- **Industry-leading product lines, including TerraWave®** provide a comprehensive ecosystem of wireless products
- **Unrivalled expertise and resources**
- **Products for every major radio/ AP covering Wi-Fi, DAS, LTE, SCADA and LPWAN**
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