

AC-Powered Outdoor Base Station

Introduction

This data sheet provides an overview, product specifications, characteristics, and requirements for the AC-Powered Outdoor Base Station. This base station includes battery backup and 3G backhaul capability. See Figure 1. The On-Ramp Wireless Access Point (AP) is located inside the equipment cabinet and is installed separately. For product specification details for the AP, refer to the *Access Point Product Specification (014-0030-00)*.



Figure 1. The AC-Powered Base Station cabinet shown with battery backup, 3G backhaul, and AP.

The AC-Powered Base Station is shipped with the following components:

- AC-powered outdoor equipment cabinet
- Integrated GPS and cellular antennas
- Backup battery

NOTE: The 3G modem and AP are not included.

Features

- Secure, single cabinet solution designed to meet NEMA 3R requirements
- Simplified installation with integrated cellular and GPS antennas
- Mounts on a wall, pole, or support pipe
- Provides a minimum of 8 hours of battery backup (when used with the specified 3G modem)
- Designed and tested to perform in outdoor environments
- Equipped with web-based remote monitoring system that monitors temperature, humidity, door status, power outage, and battery status. Sends automatic e-mail alerts or SMTP traps for alarm events.
- Thermostatically controlled fan
- Internal power and antenna surge suppressors

Applications

- Flexible outdoor installations on wall, rooftop, pole, or H-frame structure
- Third party communication sites
- Customer sites without equipment shelters
- Electric utility distribution poles with available 120/240 VAC power

Base Station Requirements

- On-Ramp Wireless Access Point
- 3G modem (see details on page 4) or other customer-supplied and integrated backhaul solution
- Activated 3G data plan with wireless carrier for the 3G modem; static AP required if using 3G modem
- AC power 90-250 VAC, 15 or 20 AMP dedicated circuit
- AP antenna (typically a 9 dBi omnidirectional)
- Coaxial cable for connection to the AP antenna
- Appropriate grounding

Product Specifications

The following table provides product specification information for the AC-Powered Outdoor Base Station. The AP is sold separately. For AP product specifications, refer to the *Access Point Product Specification (014-0030-00)*.

Table 1. Specifications for the AC-Powered Outdoor Base Station

Specification	Description
Physical	
Construction	Aluminum cabinet with mounting flanges
Finish	High durability polyester powder coat interior and exterior
Cabinet Size	Inches: 30"H x 24"W x 10"D (mounting flanges not included) Millimeters: 762mm H x 609.6mm W x 254mm D
Cabinet Weight (Maximum)	Pounds: 68 lbs without battery, 92 lbs with battery Kilograms: 30.8 kg without battery, 41.7 kg with battery

Specification	Description
Environmental	
Operating Environment	Outdoor
Cabinet Operating Temperature	-30°C to +70°C
Cabinet Storage Temperature	-40°C to +85°C, excluding the battery
Electrical	
Input Power	90 to 250 VAC
Average Power Consumption	30 Watts
Peak Draw	120 Watts
Battery Backup	8 hours (typical with specified 3G modem)
Interfaces	
Wireless Modem	13.8 VDC available to power the specified wireless modem or customer backhaul
PoE Port	48 VDC available for customer-selected backhaul (25 Watts maximum)
PoE Connections	Total of 4 with 2 spare connections available

Mechanical Characteristics

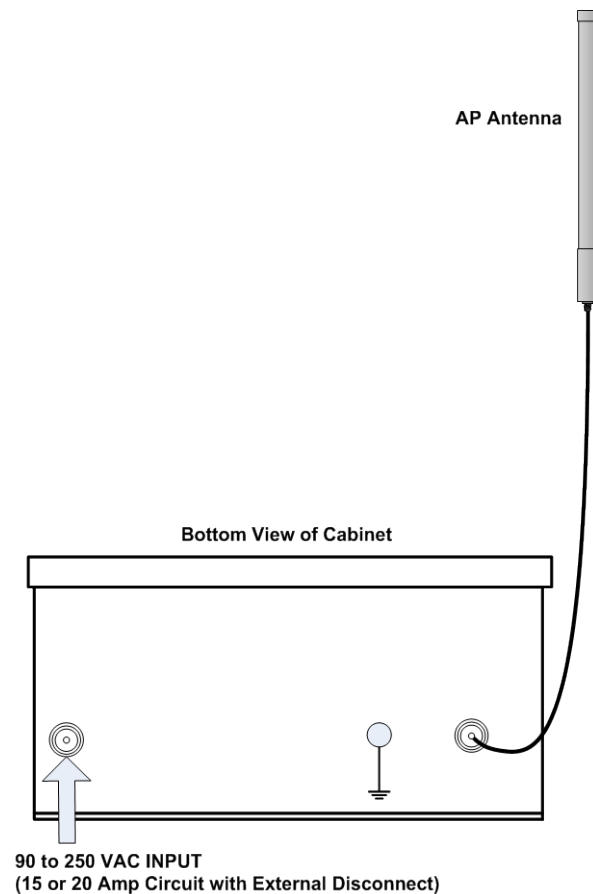





Figure 2. Basic Wiring and Components for the AC-Powered Outdoor Base Station

Product Ordering Information

To order this product or its accessories, contact an On-Ramp Wireless sales representative at info@onrampwireless.com.

Product	Part Number	Description
	590-0018	AC-powered outdoor cabinet with backhaul support system for the Access Point. Purchase from On-Ramp Wireless, Inc.

Additional Required System Component Accessories

Product	Part Number	Description
	590-0001	Access Point Purchase from On-Ramp Wireless, Inc.
	DC-WAN-U805	Digi Connect WAN 3G modem (Model U805) Purchase directly from Digi International or other Digi product supplier.
AP antenna	207-0010	2.4 GHz, 9 dBi omnidirectional antenna
Antenna cable with type N-male connectors	N/A	Site-specific cable type is based on length and acceptable cable loss. LMR400 coaxial cable is acceptable for cable lengths up to 60 feet. Purchase from a customer-selected supplier in the length specified by the site plan.