



## RPS Series PoE Systems

### Overview

RPS Series PoE Indoor & Outdoor systems are designed and developed by RealTime Systems Ltd. These Enclosures are used to provide reliable & uninterrupted broadband services. It injects PoE power on the spare pair of Ethernet cable to power up PoE complaint PDs like external Wi-Fi radios, Point to Point radios etc.

It also provides mounting space for Managed/ Unmanaged Ethernet switch for connecting multiple radios & also provides broadband services on Ethernet cables. Enclosures can also be optionally equipped with media converter to provide fiber backhaul to the RPS Enclosures. RPS provides mounting of AC-DC Power supplies, DC-DC power supplies & maintenace free batteries etc for PoE powering & un-interrupted services in case of mains failure. These RPS systems primarily runs on AC mains power supply and switches to battery mode in case of AC mains failure.

With Managed Ethernet switch RPS system provide manageability of Enclosures remotely. RealTime system also provide RealNMS enterprise class network management solution for managing RPS Enclosures.

RPS series PoE systems are intended for both indoor and outdoor purposes. User can connect a normal Ethernet(RJ45) cable at LAN connector in the system and take PoE output (12 V or 48V) from corresponding PoE port. The architecture of RPS Enclosures is modular & can be customized as per user requirements. Few standard Enclosures are included as below.



### Key Features

#### RPS-100 (Type-A PoE System)

- PoE connection for four LAN port
- Provide 4-DC terminal connection
- Power back-up from 7AH battery in case of AC failure
- PoE powering on spare pairs with 12V / 600mA rating
- Pole and wall mountable fire retardant & IP-65 compliant Enclosures.

#### RPS-200 (Type-B PoE System)

- PoE connection for six LAN ports
- PoE powering on spare pairs with 12V / 600mA rating
- Four DC terminals with 12V/600mA
- Maximum output load of 100W including PoE and DC terminals
- One slots for mounting 5/8 ports switch
- One slot for mounting Media Converter
- Power back-up from Two or four parallel 12AH batteries in case of AC failure
- Battery selection (Two/Four batteries) through switch.
- Generates alarm signals in case of AC failure, low battery or system door opening
- LED indications for system status and diagnostic
- Pole and wall mountable fire retardant & IP-65 compliant Enclosures.

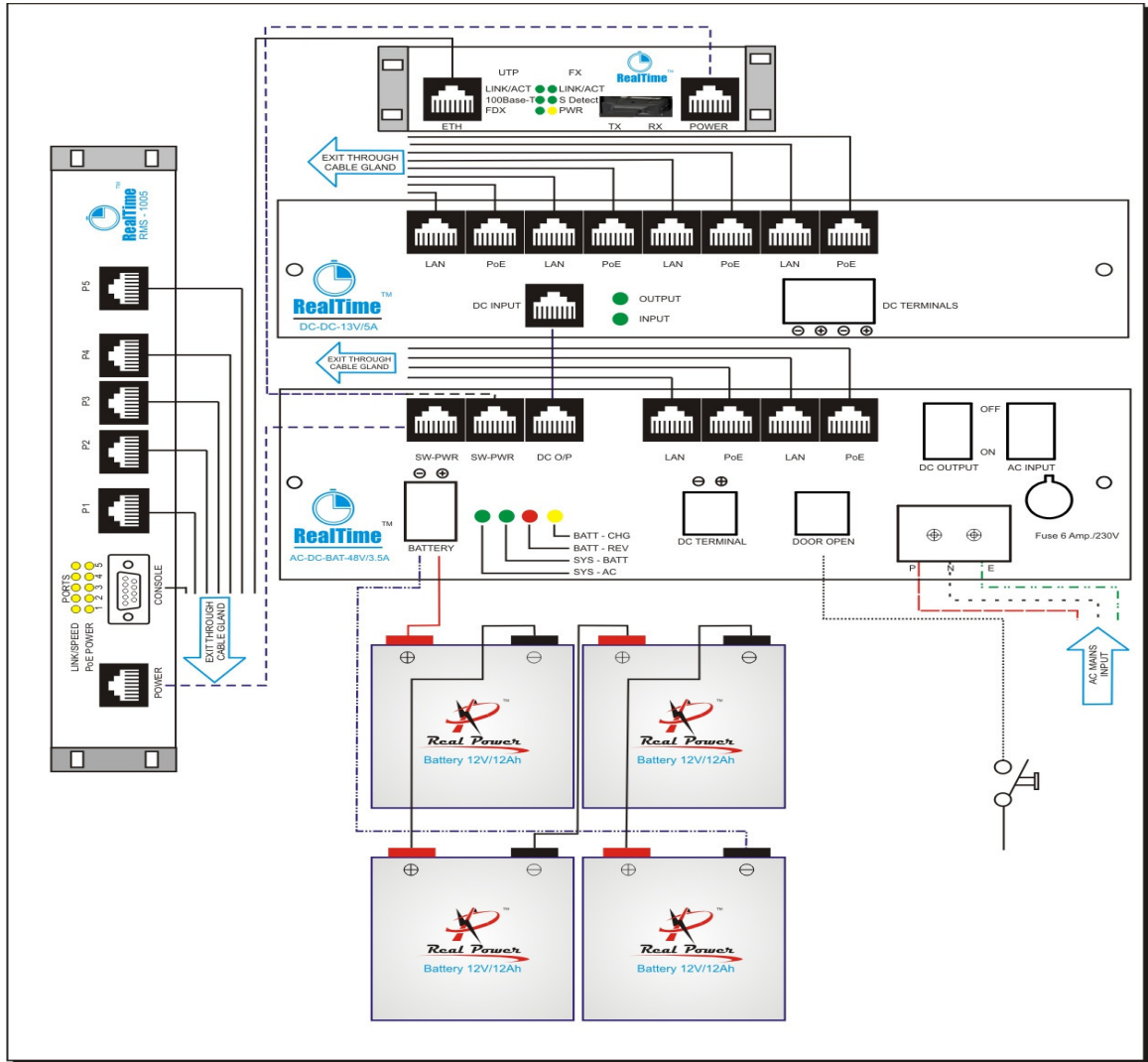


# RPS Series PoE Systems

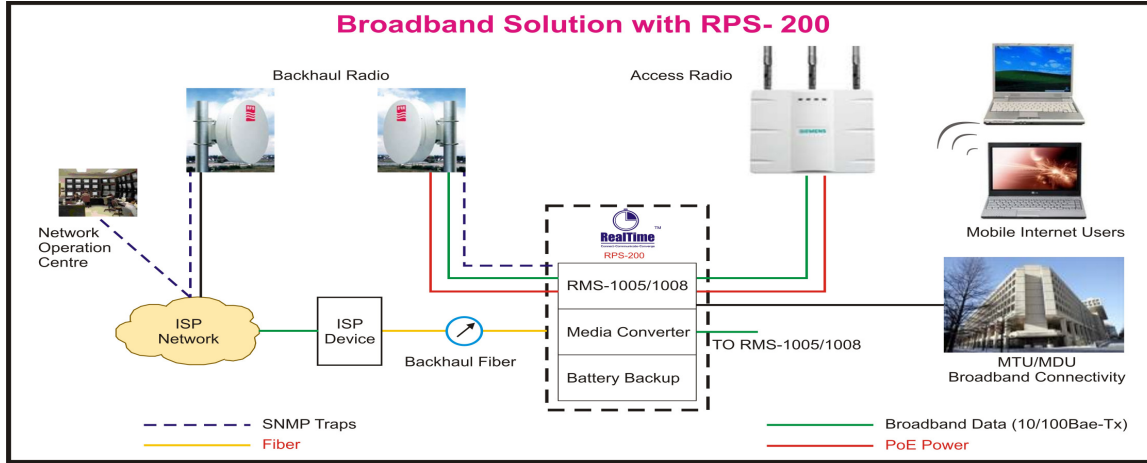
**RPS-400 (Type-E PoE System)**

- 4-RJ45 PoE ports with 12V /500mA rating.
- 2-DC terminals for 12V/600mA rating.
- 1-RJ45 PoE port for 48V/1A rating and one for redundancy.
- One DC terminal for 48V/1A rating.
- 802.3af compliant PoE ports (optional)
- PoE powering on spare pairs for 12V / 500mA rating and 48V/1A rating.
- Maximum output load of 100W including 12V and 48V PoE.
- One slot for mounting 5/8 ports Ethernet switch.
- Power back up with 48V/12AH batteries in case of AC failure.
- Generates SNMP V2 traps using 5/8-port switch in case of AC failure, low battery or door open.
- LED indications for system status and diagnostic.
- Pole and wall mountable fire retardant & IP-65 compliant Enclosures.

**System Layout Diagram**



## Applications



- Managed Broadband connectivity over wireless network
- Managed Broadband connectivity over wired network
- POE power for outdoor Wireless Base Stations and Clients & Wireless Bridge and Repeaters
- Backhaul option on fiber
- Surveillance Cameras
- Remote Sensors
- Mission critical outdoor power
- Backup Power System

## Specification

Feature Supported	RPS-100	RPS-200	RPS-400
<b>12V/500mA PoE Ports</b>	4 ports	6 ports	4 ports
<b>48V/1A PoE Ports</b>	None	None	1+1 In redundancy
<b>12V,/600mA DC Terminals</b>	4 Nos	4 Nos	2 Nos
<b>48V/1A DC Terminals</b>	None	None	1
<b>Maximum Output Load</b>	40W	100W	100W
<b>Battery Bank</b>	7AH/12V-1No	12AH/12V -2 or 4 Nos	12AH/12V - 4 Nos
<b>Full Load Power Back-up</b>	Approx 2.5 Hour	Approx 6 Hour	Approx 6 Hour
<b>Slot for Ethernet Switch</b>	3-port unmanaged-1 Nos	5/8 port Managed-1 Nos	5/8 port Managed-1 Nos
<b>Slot for Media Converter</b>	None	1	1
<b>Management</b>	Unmanaged	Manageable with 5/8 port switch	Manageable with 5/8 port switch
<b>SNMPv2 Traps</b>	Not supported	AC failure, low battery, door Open & Ethernet Traps	AC failure, low battery, door Open & Ethernet Traps



## RPS Series PoE Systems

<b>Input Voltage Range</b>		160 ~300 VAC	160 ~300 VAC	160 ~300 VAC
<b>IP-65 Compliance</b>		Yes	Yes	Yes
<b>802.3af Compliance</b>		No	No	Yes
<b>LED Indicators</b>		Available	Available	Available
<b>LAN/PoE Connector</b>		RJ45	RJ45	RJ45
<b>PoE Power Pairs</b>		Spare Pairs	Spare Pairs	Spare Pairs
<b>Physical Dimensions (HxWxD),mm</b>	<b>Inside</b>	250X200X105	345X480X210	400X300X190
	<b>Outside</b>	300X250X155	395X530X260	450X350X240
<b>Wall/Pole Mountable</b>		Yes	Yes	Yes
<b>Weight</b>	<b>(w/o Batteries)</b>	2.5Kg	9Kg	10Kg
	<b>(with Batteries)</b>	5Kg	17Kg (with 2 Batteries) 25Kg (with 4 Batteries)	26Kg

### Ordering Information

Model No	Description
<b>RPS-100</b>	Type-A PoE System
<b>RPS-200</b>	Type-B PoE System
<b>RPS-400</b>	Type-E PoE System

RealTime reserves the right to change or modify or update or clarify specifications without notice in the interest of technological advancement.

Manufactured By:  
 RealTime Systems Ltd.  
 247/29,Block-D,Sector-63  
 Noida-201301 (UP)  
 Ph.No. 91-120-4141500  
 Fax No:91-120-4141549  
 E-mail:inquiries@rtsindia.com



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