



# SiP-41&42B-LRA

Smart Industrial UPS BOX with LoRa Connectivity



## Features

- Long-term availability and value-added services
- Backup time including safe shutdown
- Wide range power input : +12~28VDC
- Dual power output : +12 or +24VDC
- Wide operating temperature range (-20°C to 70°C)
- System monitoring for powered device(PD)
- LoRa based wireless communication technology
- System information of PD delivery through LoRa Module
- Reboot function for PC-based systems

## System

Chip High Current Super CAP Backup Controller

## Supercapacitor

Capacity 100 Farads / each

## Power Requirement

Power Input DC +12~28V Input Support

Output voltage backup mode DC +12V or +24V Output with Switch Support

Output voltage normal mode Vin-0.2 V at 100 % load

Output power Max. 60W

Power Management Powered device reboot via LoRa remote control

Monitoring Real-time health monitoring of powered device

## I/O

Power Input 1 x 3-Pin Terminal Block

Power Output 1 x 2-Pin Terminal Block

Switch for Power Output 1 x Slide Switch

USB 1 x Type-A Connector

Terminal Block 1 x 8-pin terminal block for external sensor interface

## LoRa

Standard LoRa Private

Frequency 863-870MHz (EU)  
902-928MHz (US)  
920-928MHz (ROA)

Transmission Range up to 1 Km

## Environmental

Operating Temp. -20°C ~ 70°C (-4°F ~ 140°F)

Storage Temp. -30°C ~ 80°C (-22°F ~ 158°F)

Operating Humidity 10 ~ 95% RH @ 70°C (non-condensing)

Vibration 0.5 Grms/5~500Hz/random operation

Shock Operating 10G (11ms), Non-operating 30G

## Mechanical

Mounting Din Rail Mount with Bracket

Chassis Din Rail-mounting chassis, and SECC steel chassis

Weight 2.2 kg (4.85lb)

Dimensions SiP-41B-LRA=169(W) X 108(D) X 36(H) mm  
(W x H x D) SiP-42B-LRA=169(W) X 108(D) X 56(H) mm

## Nominal backup time, measured at +25 °C

SiP-41B 30W ~33sec ; 60W ~16sec

SiP-42B 30W ~66sec ; 60W ~32sec

## OS Support

Windows 7/10, Linux Kernel 4.x

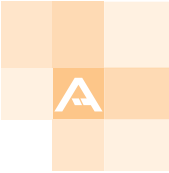
## Ordering Information

SiP-41B-LRA 4S1P, 4x100F Smart Industrial UPS Box w/ LoRa Connectivity

SiP-42B-LRA 4S2P, 8x100F Smart Industrial UPS Box w/ LoRa Connectivity

SiP-41B 4S1P, 4x100F Smart Industrial UPS Box

SiP-42B 4S2P, 8x100F Smart Industrial UPS Box



# Dimensions

