

SCP Cube - LoRa

Supercapacitor Energy Solution 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

Power Input DC +12~28V Input Support

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

Output voltage normal mode $V_{in} - 0.2$ 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 Private LoRa

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

OS Support

Windows 7/10, Linux Kernel 4.x

Ordering Information

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

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