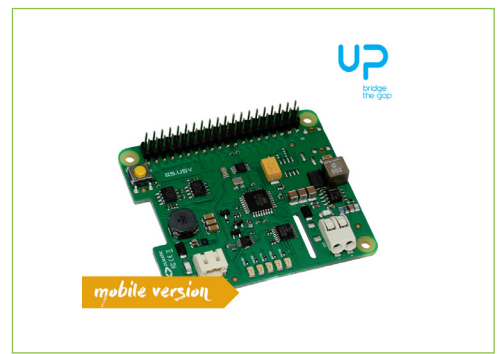


**S.USV UPs MOBILE - INTELLIGENT POWERBANK
UNINTERRUPTIBLE POWER SUPPLY FOR UP BOARD
START AND OPERATE PURELY VIA RECHARGEABLE BATTERY**



PRODUCT DESCRIPTION

Supply your single-board computer mobile and variable via the S.USV UPs mobile and design your personal portable mini PC including uninterrupted power supply. Thanks to this new additional function, you can now start and operate the single board computer purely via rechargeable battery - your portable single board computer.

The S.USV UPs mobile is an uninterrupted power supply and intelligent powerbank. By its flexibility it can be used mobile and in a variety of systems. Effective circuit breakers allow you to supply your single-board computer in an extended voltage range of 7-24 volts (solar cells, car area, etc) or the mobile operation of the SBC indoor and outdoor via battery.

The S.USV UPs mobile is an advanced power supply additional module for UP board, with the main focus on the uninterrupted power supply of the single-board computer. The module also provides additional functions in order to optimize the operation of the UP board by the user. Among other things, this has the ability to adjust the integrated charging current to 300mA (standard), 500mA, or 1 A, causing much faster battery charging time.

The S.USV UPs mobile is a fully functional plug & play solution. The power supply occurs directly through the J8 connector on the UP board and therefore uses a common voltage source, thus no additional cabling or power supply needed. In addition, the module is equipped with a Li Po battery. An integrated boost switching power converter covers the necessary voltage range, thereby the UP board shut down safely in case of misconduct and prevent data loss. The UPs mobile version also provides a power input for the extended voltage range of 7-24 volts (solar cells, automotive applications, etc.).

To ensure uninterrupted power supply of the UP board, the S.USV UPs mobile offers a fully integrated monitoring - system with a wide spectrum of operating options. All possible operating states of the UP board are monitored internally, so the module is always in a position to respond to misbehavior accordingly. If, for example, the power supply of the single-board computer falls below the adjustable voltage threshold, the S.USV UPs mobile automatically switches to battery mode and keeps the functionality of the UP board over an by the user adjustable time period constant and bridges the power failure or shut down the single board-computer in case of a long-term power outage securely.

All these features work automatically. In Addition, the operator has the opportunity to check and control all operating states or switching operations on a software.

FUNCTION OVERVIEW

- ⊗ HAT compliant UPS Module
- ⊗ Compatible with all UP boards
- ⊗ Start and operate purely via rechargeable battery
- ⊗ Uninterruptible power supply
- ⊗ Plug & Play (Power via UP board)
- ⊗ Monitoring – System
- ⊗ Intelligent software solution
- ⊗ Built-in LiPo battery (300mAh) with adjustable charging function
- ⊗ Battery Management Controller
- ⊗ Battery Monitoring System
- ⊗ Integrated Real Time Clock
- ⊗ Time-controlled on and off switching of the UP board
- ⊗ Supply Switch (Power on and off buttons / File safe shutdown)
- ⊗ LED – Status display
- ⊗ Bootloader for Live – Firmware updates
- ⊗ Network input with extended voltage range (7-24V)

TECHNICAL SPECIFICATIONS

	S.USV UPs mobile
Plug & Play	√
Power Supply	5 Volts/2500 mA
Extended Voltage Range	7-24 Volts/3500 mA
Secondary output power	5 Volts/3500 mA
Interfaces	I ² C
ID EEPROM	√
Monitoring - System	√
LiPo - Battery	√
Battery Management	√
Battery Monitoring	√
Real Time Clock	√
Raspberry Pi Supply Switch	√
Compatibility	All UP boards
Dimensions	65x56,5 mm