

# HAB0116/ HAB0117

HAD0116/7 is a highly integrated battery monitor and protector designed for lithium-ion battery packs. It accurately measures 16/17-series battery cell voltage, current, and temperature while offering high-side charge and discharge capabilities. Hence simplifies system design, ensures precision monitoring, and provides essential protection against overcharge and over-discharge for enhanced battery safety and performance.

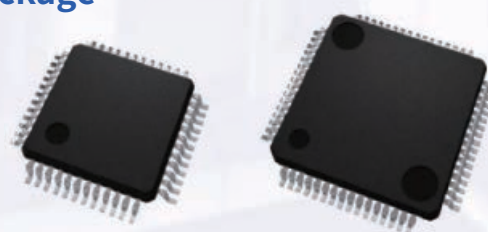
## Key features

- 17 Cell Voltage Measurement with Busbar Support
- +/-2mV Voltage Monitor Accuracy With 100ms Cycle
- +/-20μV Current accuracy with 1ms Cycle
- Independent Voltage and Current Measurement
- 10 Channel NTC Measurement with +/-2°C Accuracy
- Internal Balancing MOSFET Support up to 80mA Current
- Integrated Charge Pump to Support High Side Charge and Discharge
- 3 LDOs for MCU-VCC , Interface and MCU-VBAT Stop mode

## Application

- Portable Power Station
- Low Voltage House Energy Storage
- Lithium Battery Bicycle
- High Voltage Power Tool

## Package



LQFP-48

LQFP-64

## HAD0116/ HAD0117 System Diagram

