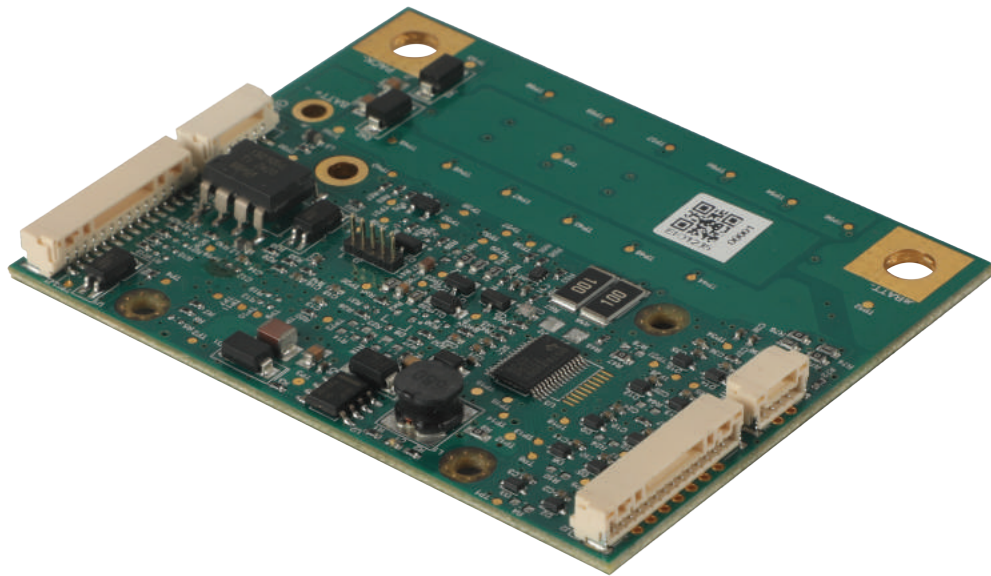


FS-CT

Battery Management System

Designed for low voltage battery systems. Comes with 5S and 10S variants suitable for two wheeler automotive and small storage applications.



Features

- Configurable single board compact architecture.
- Supports multiple battery chemistries.
- State of Charge (SOC) and State of Health (SOH) estimations based on advanced algorithms.
- Watchdogs and self-diagnostics safety systems.
- Isolated CAN bus interface for charger control and system interfacing.
- Each board manages from 3 to 10 cells in series.
- Integrated PDU with 40A continuous current and over-current protection.
- Detection and protection for over voltage and under-voltage errors.
- Real-time monitoring and logging.
- 500 μ A supply current in power saving mode.
- Embedded passive balancing up to 150mA per cell.
- 1 onboard temperature sensors and 2 thermistors (NTC) inputs for external sensing

Applications



Light electric vehicles -
bicycles and scooters



Small industrial and
home storage systems

General Specifications

Parameters	Description
Battery voltage	7.5VDC – 42 VDC
Cell configuration (per board)	3-5 cells (FS-CT 5S) 6-10 cells (FS-CT 10S)
Capacity	40Ah max recommended
Balancing current per cell	150 mA @ 4.2V
Max cell voltage	4.2V
Current consumption on battery	15mA typical in normal mode 500µA typical in sleep mode
Temperature sensors	1 on the board + 2 external sensors (10kΩ NTC)
Communication	CAN bus for system integration 4 Led for SOC
Temperature	-40°C to 85°C
Dimensions	75 X 60 X 15 mm
Weight	35 g

Typical FS-CT Application

