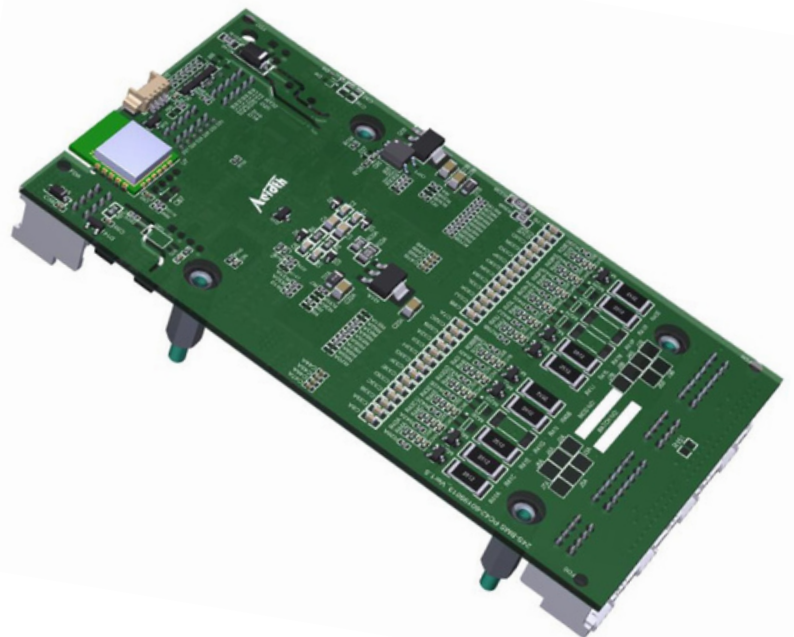
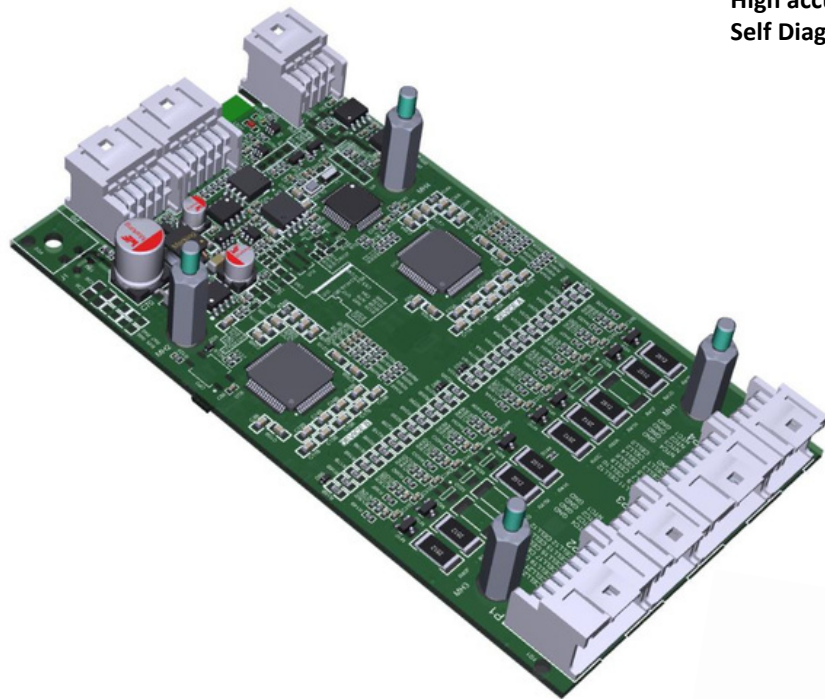




6S - 24S SERIES BATTERY MANAGEMENT SYSTEM (BMS)



Battery Pack Monitoring and Control, Passive Cell Balancing, CAN,
5.1 BLE, Digital Output, Ultra-Low,
Power Dissipation with Hardware Interlock Safety Layer
Temperature based Balancing Algo
High precision Current measurement
High accuracy SOC algo
Self Diagnostic Feature



1. FEATURES

- Supports multiple battery chemistries – LFP, NMC, LCO, LMO, LTO
- **AIS156 Compliance**
- Measures Individually upto 24 cell voltages in series
- Measures up-to 8 cell temperatures
- Up to 100V Battery Packs
- Smart passive balancing algorithm with up to 110mA at 5.0V Cell
- Advance algorithms for State of Charge, State of Health, Remaining Capacity.
- Cell over voltage, under voltage, Open wire, Cell over and under temperature hardware interlock layer protection
- Isolated CAN 2.0B, 5.1 Bluetooth
- Pre-charge Control
- Current Sensor Monitoring
- Inbuilt Power Supply up to 12-60 Volt
- Fault Management
- Data Logging
- Ultra-Low Power Dissipation
- Automotive Grade
- Status LEDs for error indication and balancing
- Watchdogs and self-diagnostics safety systems
- Sleep mode current consumption is less than 500uA
- Compatible with our Dashboard in real time Offline and Online web portal also with IoT device
- 1.5 millivolt Accuracy Cell measurement
- As per AIS 156 Buzzer and LED indication on specific temperature Range

2. Applications

- Electric Vehicles (cars, trucks, busses, boats, heavy equipment, racing, etc.)
- Hybrid & Plug-In Hybrid Vehicles
- Solar and wind energy storage
- UPS and peak shaving applications
- Research & Laboratory Testing

3. CBMS Specifications:

Parameters	Descriptions
Voltage range	12 – 100 VDC
Number of Cells	upto 24 Cells
CAN Communications	Isolated CAN channel CAN 2.0B
Supported CAN speed	125K, 250K, 500K, 1M bits/sec
Operating temperature	-20 to 85 °C
Storage	EEPROM (Can store data for analysis)
PDU MOSFETs Control Communication	Pre-charge, Charging Control, Discharging Control
Power Supply	Bluetooth with App, CAN
Active mode current consumption	Inbuilt 12-60 Volt
Sleep mode current consumption	10-12 mA
Current Sensor Values	< 500uA
Cell Voltage Error	+/- 125 Amp
Measurement Period	±1.0 mV, ±10.0 mV (-40 to 85 °C)
Temperature sensors	50 ms to 10 Sec
On Board Temperature	Up to 8
Temperature measurement accuracy	3 Channel
Cell Balancing	±1 °C (-40 to 85 °C)
Status LED	Passive (110mA at 5 Volt)
Extra Peripheral Connection	Running, Power, BLE Indication
Extra Sensor	SOC Indicator with Buzzer (If required)
Grade	None
	Automotive*

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