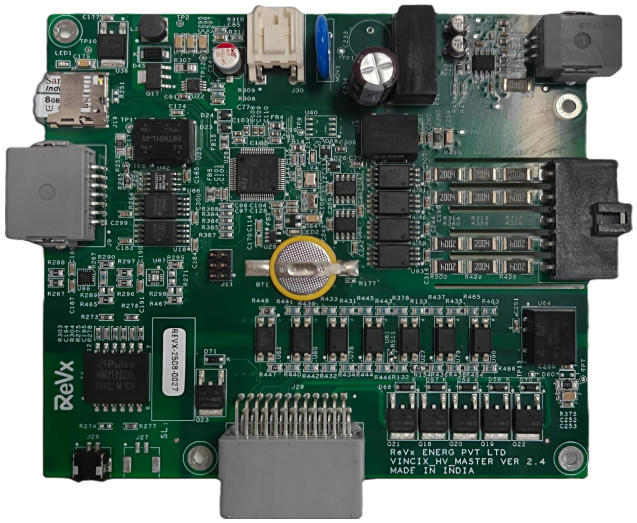
ReVx Energy

VinciX-HV-Master BMS

Battery Management System



FEATURES

- Scalable and Modular **High Voltage** architecture for **BESS**
- On Board 4 Channel **HV Sensing** and 2 Channel **Current Sensing**
- **ISO 26262** Compatible Architecture and **SIL 2** Capable System with BMUs
- Field Upgradable Firmware: **OTA** Supported
- Multiple Protocol Interfaces **CAN2.0, RS485,**
- **Four slave versions:** 18S LMU, 54S BMU, 108S BMU & 108S LMU
- Real-time Pack **SOC**, **SOH** and **SOE** Computation with High Accuracy
- Compatible with **TuringX** for Live Tracking, Monitoring, Configuring and Logging

APPLICATIONS

- Electric Bus
- Electric Truck
- HV Energy Storage

KEY SPECIFICATION

Parameters	Specifications
Input Voltage	9V - 75V [Configured Based on requirement]
Number of Slaves Supported	22 Slaves through isoSPI / 30 BMU through CANFD
Compatible Slaves	18S LMU, 36S BMU, 54S BMU, 108S LMU, 108S BMU
Data Storage	On Board SD Card
Number of CAN Channel	2 Isolated Channel CAN 2.0
Number of RS485 Channel	1 Isolated Channel RS485
Number of isoSPI Channel	2 Channel isoSPI for Daisy Chain Link of LMUs
High Voltage Measurement Channel	4 Channel
High Voltage Measurement Range	0V - 1200V
High Voltage Measurement Accuracy	±0.5%
Number of Current Measurement Channel	2 up to ±1000A
Current Sensing Accuracy	±0.5%
Current Measurement Interface	Hall Effect Current Sensor Supports both Unipolar and Bipolar Power Supply up to 600mA for Sensor Supports both Open Loop and Closed Loop Current Sensing
High Current Outputs	7 Low Side Channel for Contactor and other Outputs
General Purpose Input	8 Low Side and 1 High Side Channel for Sensing Inputs
Temperature Sensor	On-Board Temperature Sensor
MCU Features	100MHz Arm Cortex M4 with ART Accelerator
Safety Features	HVIL, Contactor weld detection and Insulation Monitoring
Protections	Cell and Pack Under voltage, Over voltage, Discharge and Charge Over Current, Discharge and Charge Over Temperature, Under Temperature, Short circuit, and Regen protection
Compliance Compatible	IEC 62933-2, IS 17387:2020, IEC 61000-4 All Parts, AIS 004 Part 3
Operating Temperature	-20 °C to +85 °C
Dimension	130 * 115 * 20 mm [L*W*H]

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