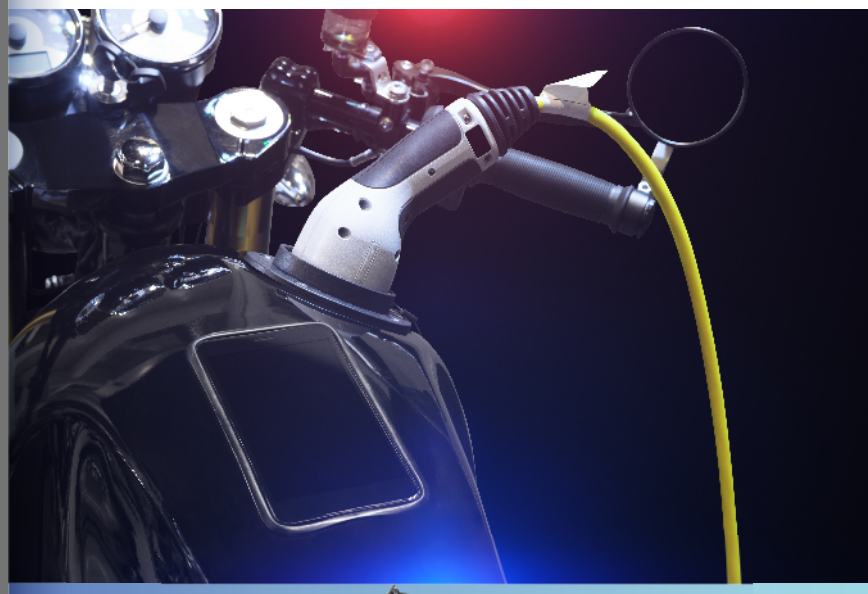
Inventec
Automotive Electronics

96V BMS System
for E-Scooter



- S32K/K2 + Mc33771
- Support battery monitor up to 400V.
- Battery SOC/SOH/ SOE/ SOF/ DOD…etc.
- Powerful Battery balance/ charge/discharge algorithm.
- Have 3x CAN FD to slave BMU and VCU

Item	Description
Processor	Master MCU (NXP-SPC5744PFK1AMLQ9): 32bit-MCU (180MHz), ISO26262 ASIL-D capable Slave MCU (NXP-S9KEAZ128AMLH): 48MHz ARM Cortex M0+
Power	PowerSBC (NXP-MC33FS6522L): Wide range of input voltages, MCU core supply from 1.0V~5.0V, delivering up to 2.2A, ASIL-D capable
Ports	CAN bus, UART port, SPI interface
AFE	NXP-PC33771ASP1: 7 to 14 cells management, ASIL-C capable
Digital Isolation	NXP-MC33664ATL1EG: 2.0 Mbps isolated network communication rate, Dual SPI architecture
Transceiver	NXP-TJA1059TK: CAN FD 5Mbit/s NXP-UJA1167TK: CAN FD 2Mbit/s
Cell	SDI-40T 24S2P

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