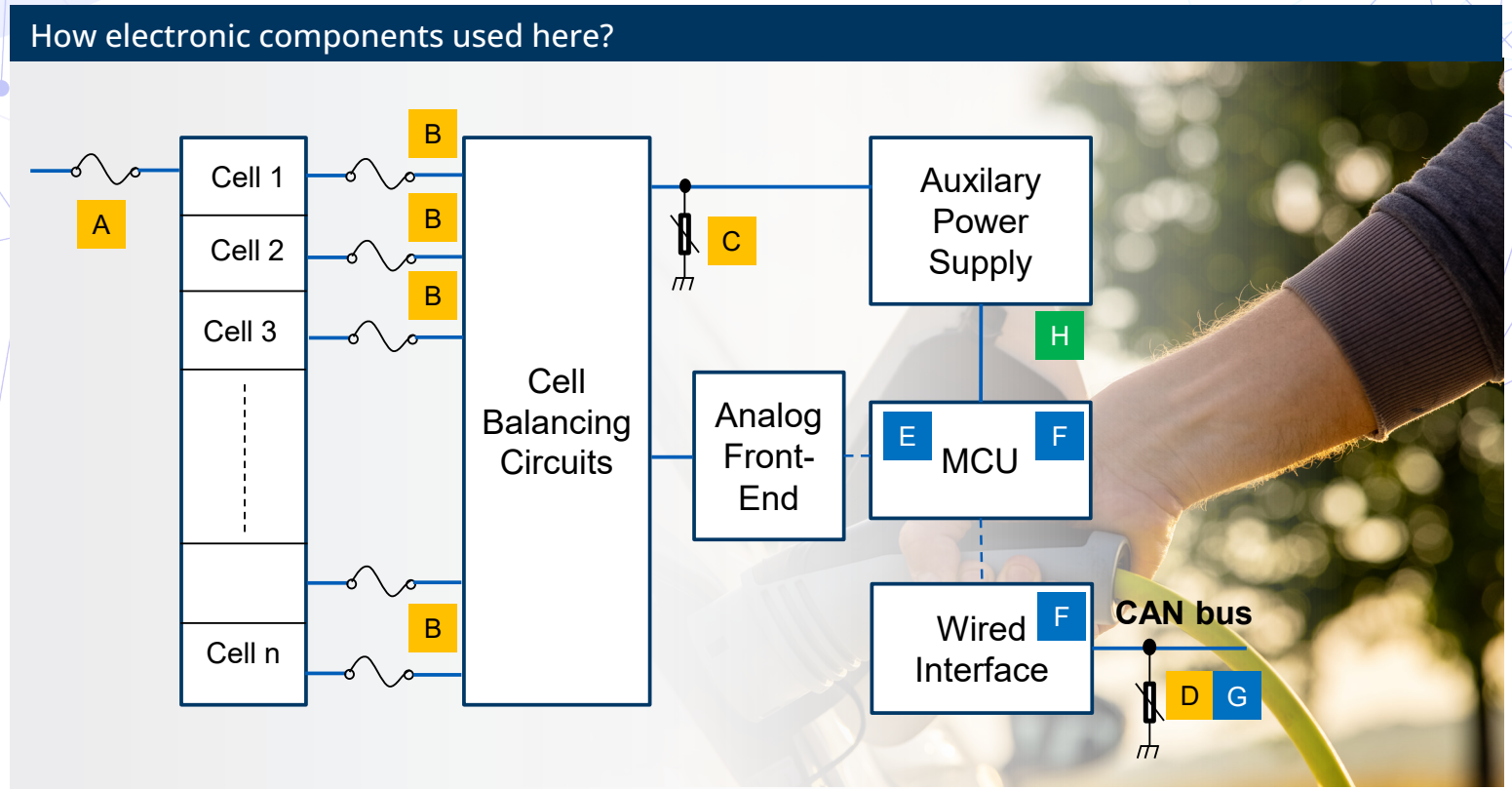


Automotive battery management sub-module level

A battery management system (BMS) typically comprises various subsystems. They are responsible for monitoring and managing the performance of individual battery cells or modules within the overall battery pack. By doing so, it ensures optimal power delivery, extends battery life, and prevents potential safety hazards.



	Product	Families	Function
Circuit Pro. - OC	A High current fuse	CB61F, 1245HC	Main power overvoltage, short circuit protection rated up to 72 V / 100 A
	B Low voltage fuse	CC06FA, 0603FA, CC12H, 3216FF	Battery sense line short circuit protection & current limiter rated up to 63 V, 0.25-1.5 A
Circuit Pro. - OV	C High power TVS diode	SMBJxxH / 15BJxxH / SMCJxxH	Transient surge protection (600-1500 W)
	D Polymer ESD suppressor, ESD TVS diode automotive rated	PS04LTVA1, STN ESD TVS diode	ESD & EFT protection of CAN lines (12 to 30 V, ultra low capacitance)
Magnetics	E Low profile molded inductor, Semi-shielded inductor, Shielded inductor	MPIA-V2, SDCHA, DRA74	LV DC / DC converter for controls
	F Ferrite chip bead	MFBA	IC decoupling, general filtering
	G Signal line CMC	ACExV	CAN / Ethernet bus signal line filter
Capacitors	H Hybrid polymer capacitor	EHBSA	Input / output capacitor

Recommended products



CB61F Fast-acting brick fuse

- 6.1 x 2.5 mm surface mount
- Current range: 2 A to 40 A
- High interrupting ratings
- Reflow and wave solder compatible



CC06FA Fast-acting SMD fuse

- 0603 (1608 metric) size (1.6 mm x 0.8 mm)
- High breaking capacity up to 63 Vdc
- Interrupting rating: 50 A
- Current range: 0.5 A - 1.5 A
- AEC-Q200 qualified



CC12H SMD fuse

- 3.2 mm x 1.6 mm surface mount
- High inrush withstand capability
- High I²t
- AEC-Q200 qualified (750 mA - 30 A)



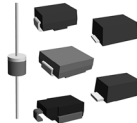
1245HC Fast-acting brick fuse

- 4818 (1245 metric) size
- High current carrying capability (up to 100 A)
- Voltage rating: 125 Vac, up to 80 Vdc



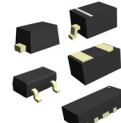
3216FF Fast-acting SMD fuse

- 3.2 x 1.6 mm fuse
- Current rating up to 30 A
- Low resistance and rugged construction
- AEC-Q200 qualified (250 mA to 7 A)



High power TVS diode automotive rated

- 200 W to 12000 W peak pulse capability
- SMx and xKPE packages
- AEC-Q101 qualified



STN ESD TVS diode automotive rated

- DFN1006 / DFN2510 package
- Uni-directional and bi-directional options
- Reverse working voltages up to 5 V
- AEC-Q101 qualified



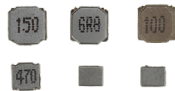
PS04LTV1 Polymer ESD suppressor

- Low profile 0402 (1005 metric) compact design
- Voltage rating: 5 - 12 Vdc
- Ultra-low capacitance (0.05 pF typ.)
- AEC-Q200 qualified



MPIA-V2 Low profile molded inductor

- EIA / Metric sizes: (1008/2520) and 4² mm
- Inductance range: 0.10 µH to 22 µH, rated up to 22 A, low DCR
- AEC-Q200, -55 °C to +125 °C



SDCHA Semi-shielded inductor

- 5 mm, 6 mm, 8 mm SMT sizes
- Inductance range: 1.0 µH to 100 µH, current range up to 13.5 A, low DCR
- AEC-Q200, -55 °C to +125 °C



DRA74 Shielded inductor

- 7.6 x 7.6 x 4.35 mm
- Inductance range: 0.29 µH to 1001.7 µH, rated up to 18.4 A
- AEC-Q200, +165 °C maximum operating temperature



MFBA Ferrite chip bead

- EIA / Metric sizes: (0402/1005), (0603/1608), (0805/2012)
- High impedance up to 2000 Ω, high current up to 6 A
- AEC-Q200, -55 °C to +150 °C (High temperature rating)



ACE CAN-Ethernet inductor

- EIA / Metric sizes: (0805/2012), (1210/3225), (1812/4532)
- Inductance range: 11 µH to 200 µH
- AEC-Q200, OPEN Alliance 2.0 (ACE2V), -40 °C to +125 °C



Conductive polymer hybrid aluminum electrolytic capacitor

- Capacitance range: 10 µF - 820 µF
- Voltage range: 16 Vdc - 80 Vdc
- High reliability, high endurance, high ripple current, low ESR and long life
- Temperature range: -55°C to +125°C
- AEC-Q200 qualified

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