



AUTOMOTIVE ANALOG PRODUCTS

Signal Chain Products

Amplifiers & Special Function Circuits | Data Converter | Interface | Isolation

Power Management Products

DCDC | Drivers | LDO & Voltage Reference | Power Switch | Supervisors | BMS



About 3PEAK

3PEAK is committed to the research and development of high-performance, high-quality, and highly reliable integrated circuit products, including signal chain, power management, and mixed-signal front-ends to provide customers with all-around solutions. The applications of the products cover many fields such as communication, industrial, consumer and the automotive industry.

Established in 2012, 3PEAK was listed on the SSE STAR Market on September 21, 2020. 3PEAK has Headquarters in Suzhou, China and Plano, Texas, USA.

688536
Stock Code(SSE)

2012
Founded

24+
Offices

830+
Employees

2800+
Products

6000+
Customers

20+
Countries

10B+
Chips Shipped



3PEAK Automotive-Grade Test Center

Why 3PEAK

1.Products

- a. Our comprehensive analog product family provides a full signal chain and power management solution.
- b. Strong R&D investment and ability, all products have their own IPs.
- c. Advanced product performance and thousands of cross reference products to support our global customers.



FuSa
ISO 26262



BCMS
ISO 22301



QMS
ISO 9001

2.Quality

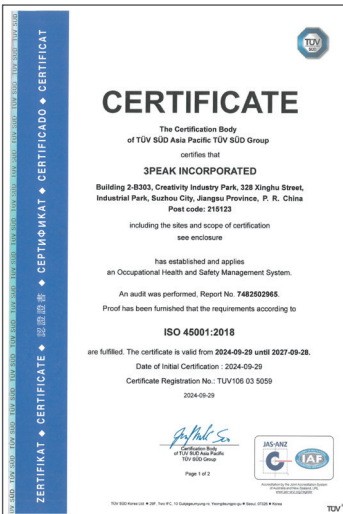
- a. 3PEAK automotive parts are full AEC-Q100 qualified devices.
- b. Automotive parts are manufactured in TS/IATF16949 certified partner sites.
- c. Dedicated team to support automotive customers.

3.Supply

- a. Our top tier suppliers are located in all major regions and have been 3PEAK partners for over 10 years.
- b. 3PEAK's automotive-grade test center ensures controllable quality and delivery.



CNAS
ISO 17025



OHSMS
ISO 45001

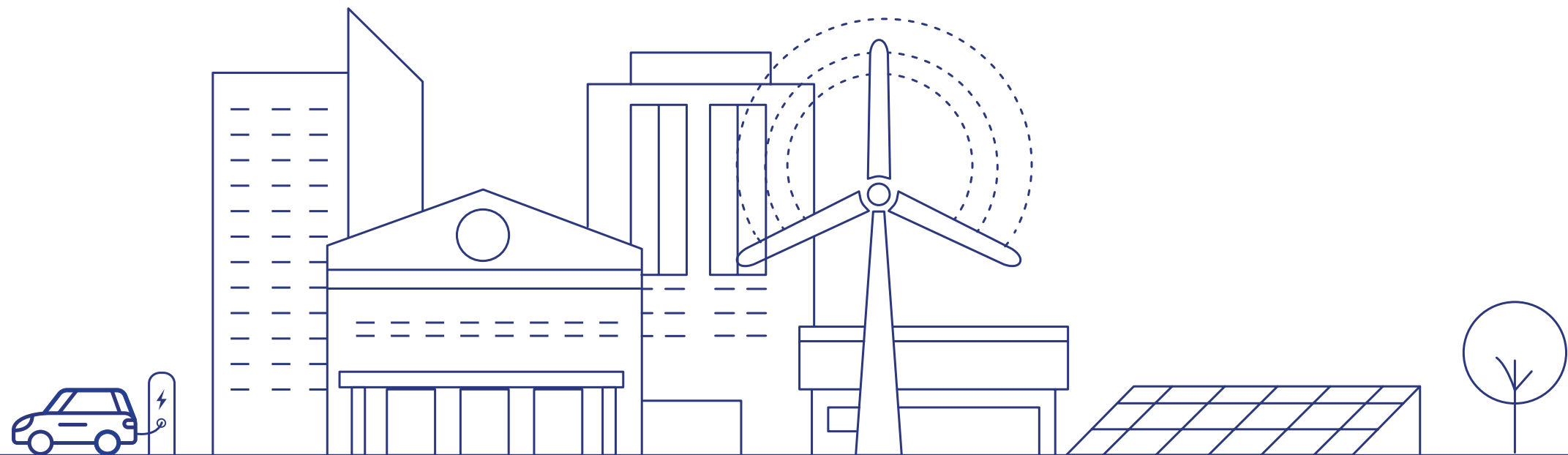


EMS
ISO 14001



IATF
ISO 16949

3PEAK Automotive Product Categories



Applications	CAN/ LIN	High-side/ Low-side Driver	ISO- Gate Driver	Gate Driver	Isolator	Supervisors & Reset	Voltage Reference	PMIC	DCDC	ISO- DCDC	LDO	Comparator	Special Amplifier	General Operational Amplifier	Data Converter
Traction Inverter	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
DCDC	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
On-board Charger (OBC)	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
BMS	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
EPS	✓			✓		✓	✓		✓		✓	✓	✓	✓	
BCM	✓	✓		✓		✓	✓	✓	✓		✓	✓	✓	✓	
Seat System	✓	✓		✓		✓	✓		✓		✓	✓	✓	✓	
Lighting System	✓					✓	✓		✓		✓	✓	✓	✓	
Door/Window Module	✓	✓		✓		✓	✓		✓		✓	✓	✓	✓	
HVAC System	✓	✓		✓		✓	✓		✓		✓	✓	✓	✓	
Infotainment	✓					✓	✓	✓	✓		✓	✓	✓	✓	✓
DMS	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓
mmWave Radar	✓					✓	✓		✓		✓	✓	✓	✓	
Camera	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	
LiDAR	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	
T-Box	✓					✓	✓	✓	✓		✓	✓	✓	✓	✓
Gateway	✓					✓	✓	✓	✓		✓	✓	✓	✓	✓

* Blank: Typically not needed in Application.

Automotive Products List

Status as of 1 June, 2025

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Amplifiers & Special Function Circuits						
High-speed OPA	TPH2861-DF4R-S	Production	DFN2X2-8	5V, 8GHz, G=7 Stable	OPA855	Lidar
High-speed OPA	TPH2861Q-DFVR-S	Production	DFN2X2-8	5V, 8GHz, G=7 Stable	OPA855	Lidar
High-speed OPA	TPH2865Q-DFVR-S	Production	DFN2X2-8	5V, 4GHz, G=7 Stable	OPA858	Lidar
High-voltage OPA	LM2902A-SO2R-S	Production	SOP14	36V, 4CH Amplifier	LM2902	Generic Components, xEV
High-voltage OPA	LM2902A-TS2R-S	Production	TSSOP14	36V, 4CH Amplifier	LM2902	Generic Components, xEV
High-voltage OPA	LM2904A-SO1R-S	Production	SOP8	36V, 2CH Amplifier	LM2904	Generic Components, xEV
High-voltage OPA	LM2904A-TS1R-S	Production	TSSOP8	36V, 2CH Amplifier	LM2904	Generic Components, xEV
High-voltage OPA	LM2904A-VS1R-S	Production	MSOP8	36V, 2CH Amplifier	LM2904	Generic Components, xEV
High-voltage OPA	TP2261L1-S5TR-S	Production	SOT23-5	36V, High Slew Rate, High Voltage, OPA, 1CH		Generic Components
High-voltage OPA	TP2262L1-SO1R-S	Production	SOP8	36V, High Slew Rate, High Voltage, OPA, 2CH		Generic Components
High-voltage OPA	TP2264-TS2R-S	Production	TSSOP14	36V, High Slew Rate, High Voltage, OPA, 4CH		Generic Components
High-voltage OPA	TPA2644-SO2R-S	Production	SOP14	High Voltage, High PSRR, Low Noise OPA		Generic Components, xEV
High-voltage OPA	TPA1861Q-S5TR-S	Production	SOT23-5	36V, 6MHz, 80uV Amplifier	OPA197	Generic Components, xEV
High-voltage OPA	TPA1862Q-SO1R-S	Production	SOP8	36V, 6MHz, 80uV Amplifier	OPA2197	Generic Components, xEV
High-voltage OPA	TPA1881Q-S5TR-S	Production	SOT23-5	36V, 12MHz, 50uV Amplifier	OPA197	Generic Components, xEV
High-voltage OPA	TPA1882Q-SO1R-S	Production	SOP8	36V, 12MHz, 50uV Amplifier	OPA2197	Generic Components, xEV
High-voltage OPA	TPA1882Q-VR-S	Production	MSOP8	36V, 12MHz, 50uV Amplifier	OPA2197	Generic Components, xEV
uOPA	TP1561AL1-S5TR-S	Production	SOT23-5	6V, 6MHz RRIO OPA, 1CH		Generic Components
uOPA	TP1562AL1-SO1R-S	Production	SOP8	6V, 6MHz RRIO OPA, 2CH		Generic Components
uOPA	TP1562AL1-VS1R-S	Production	MSOP8	6V, 6MHz RRIO OPA, 2CH		
uOPA	TP1564AL1-SO2R-S	Production	SOP14	6V, 6MHz RRIO OPA, 4CH		Generic Components
uOPA	TP1564AL1-TS2R-S	Production	TSSOP14	6V, 6MHz RRIO OPA, 4CH		Generic Components
Zero-drift OPA	TPA5561Q-S5TR-S	Production	SOT23-5	5V, 3.5MHz, 50uV Vos, High Precision Amplifier	TSZ181, OPA335	Generic Components, xEV
Zero-drift OPA	TPA5562Q-SO1R-S	Production	SOP8	5V, Zero-Drift Operational Amplifiers	TSZ181	Generic Components
Zero-drift OPA	TPA5562Q-VS1R-S	Production	MSOP8	5V, Zero-Drift Operational Amplifiers	TLV900xQ, TLV906xQ	Generic Components
Zero-drift OPA	TPA5571NQ-S6TR-S	Production	SOT23-6	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Zero-drift OPA	TPA5571Q-S5TR-S	Production	SOT23-5	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Zero-drift OPA	TPA5572Q-SO1R-S	Production	SOP8	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Zero-drift OPA	TPA5572Q-VS1R-S	Production	MSOP8	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Current-sense Amplifiers	TPA2296T-S5TR-S	Production	SOT23-5	HV, High Side Current Sense Amplifier	LMP8640/INA293/INA280	Generic Components, xEV
Current-sense Amplifiers	TPA132A1Q-SO1R-S	Production	SOP8	80Vcm, High Precision, Current Sense Amplifier, 20V/V	INA240/INA241	
Current-sense Amplifiers	TPA132A1Q-TS1R-S	Production	TSSOP8	80Vcm, High Precision, Current Sense Amplifier, 20V/V	INA240/INA241	Motor Control, Solenoid
Current-sense Amplifiers	TPA132A2Q-SO1R-S	Production	SOP8	80Vcm, High Precision, Current Sense Amplifier, 50V/V	INA240/INA241	Motor Control, Solenoid
Current-sense Amplifiers	TPA132A2Q-TS1R-S	Production	TSSOP8	80Vcm, High Precision, Current Sense Amplifier, 50V/V	INA240/INA241	Motor Control, Solenoid
Current-sense Amplifiers	TPA191A1Q-SC6R-S	Production	SOT363	36Vcm, 80kHz Current Sense, Bidirectional, G=20	INA199, INA191	Generic Components, xEV
Current-sense Amplifiers	TPA191A2Q-SC6R-S	Production	SOT363	36Vcm, 80kHz Current Sense, Bidirectional, G=50	INA199, INA191	Generic Components, xEV
Current-sense Amplifiers	TPA191A4Q-SC6R-S	Production	SOT363	36Vcm, 30kHz Current Sense, Bidirectional, G=100	INA199, INA191	Generic Components, xEV

Automotive Products List

Status as of 1 June, 2025

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Amplifiers & Special Function Circuits						
Current-sense Amplifiers	TPA191A5Q-SC6R-S	Production	SOT363	36Vcm, 30kHz Current Sense, Bidirectional, G=200	INA199, INA191	Generic Components, xEV
Isolated Amplifiers	TPA8001-SOAR-S	Production	WSOP8	±250mV or ±50mV Input Isolated Amplifier	AMC1300, AMC1301, NSI1300, Si8921	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station
Isolated Amplifiers	TPA8003-SOAR-S	Production	WSOP8	2.2V Input Isolated Amplifier	AmC1311, NSI1311,ACPL-C870	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station
Comparators						
Comparators	LM2901A-SO2R-S	Production	SOP14	36V, General Comparator, BJT input, 4CH	LM2901	Generic Components, xEV
Comparators	LM2901A-TS2R-S	Production	TSSOP14	37V, General Comparator, BJT input, 4CH	LM2901	Generic Components, xEV
Comparators	LM2903A-SO1R-S	Production	SOP8	36V, General Comparator, BJT input, 2CH	LM2903	Generic Components, xEV
Comparators	LM2903A-TS1R-S	Production	TSSOP8	36V, General Comparator, BJT input, 2CH	LM2903	Generic Components, xEV
Comparators	LM2903A-VS1R-S	Production	MSOP8	36V, General Comparator, BJT input, 2CH	LM2903	Generic Components, xEV
Comparators	LM2903DQ-SO1R-S	Production	SOP8	36V, General Comparator, BJT input, 2CH	LM2903	Generic Components, xEV
Comparators	TPA2031Q-S5TR-S	Production	SOT23-5	5V, 100ns Comparator	TS3021	Generic Components, Lidar
Comparators	TPCMP231Q-S5TR-S	Production	SOT23-5	5V, 55ns Comparator,1CH	TLV3501/TS3021A	Generic Components, Peak and Zero-crossing Detectors
Data Converter						
Precision ADC	TPC5120Q-TS7R-S	Production	TSSOP38	12bit, 1MSPS, 16CH ADC	ADS7953-Q1	BMS, PDU, Infotainment, Charging Pile Station, PTC, Panel
Precision ADC	TPC5121Q-TS8R-S	Production	TSSOP30	12bit, 1MSPS, 8CH ADC	ADS7951-Q1	BMS, PDU, Infotainment, Charging Pile Station, PTC, Panel
Precision ADC	TPC6160SQ-VS2R-S	Production	MSOP10	16bit, 8kSPS, 4CH Sigma-Delta ADC with Internal Reference and Temperature Sensor	ADS1118-Q1	BMS, Current Sensor, PDU, Infotainment, Charging Pile Station, PTC, Panel
Precision ADC	TPC6200SQ-VS2R-S	Production	MSOP10	24bit, 32kSPS, 4CH Sigma-Delta ADC with Internal Reference and Temperature Sensor	ADS1118-Q1	BMS, Current Sensor, PDU, Infotainment, Charging Pile Station, PTC, Panel
AFE	TPA626-VS2R-S	Production	MSOP10	0V-36V Sense Voltage, Bi-Directional Current and Power Monitor	INA226-Q1	BMS, Current Sensor
DCDC						
High-voltage Buck Converters	TPP363070Q-FC6R-S	Production	QFN2X3-12	3V to 36V Input, 3A, Low Quiescent Current Synchronous Step-Down Regulator, 400kHz	LMR33630-Q1	Infotainment, ADAS, Body Electronics, HV/LV DCDC, OBC, Lighting, Charging System, Generic Purposes
High-voltage Buck Converters	TPP363072Q-FC6R-S	Production	QFN2X3-12	3V to 36V Input, 3A, Low Iq Synchronous Step-Down Regulator, 2.1MHz, PFM	LMR33630-Q1	Infotainment, ADAS, Body Electronics, HV/LV DCDC, OBC, Lighting, Charging System, Generic Purposes
Boost	TPQ50551Q-DFTR-S	Production	DFN3X2-12	50V, 2.2MHz Boost/SEPIC/Flyback Controller with Spread Spectrum	LM5155-Q1, LM5156-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost	TPQ50551WQ-DFTR-S	Production	DFN3X2-12	50V, 2.2MHz Boost/SEPIC/Flyback Controller with Spread Spectrum	LM5155-Q1, LM5156-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost	TPQ5055Q-DFTR-S	Production	DFN3X2-12	50V, 2.2MHz Boost/SEPIC/Flyback Controller with Spread Spectrum	LM5155-Q1, LM5156-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost	TPQ50571Q-QFNR-S	Production	QFN3X3-16	50V, 5A, 2.2MHz Boost/SEPIC/Flyback Converter with Spread Spectrum	TPS55340-Q, LM51571-Q	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost	TPQ50571WQ-QFNR-S	Production	QFN3X3-16	50V, 5A, 2.2MHz Boost/SEPIC/Flyback Converter with Spread Spectrum	TPS55340-Q, LM51571-Q	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost	TPQ5180Q-DFMR-S	Production	DFN4X4-8	65V, PSR Flyback DC/DC Converter with 100V, 2A Internal Switch	LM5180-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost	TPQ5181Q-DFMR-S	Production	DFN4X4-8	60V, PSR Flyback DC/DC Converter with 80V, 2.1A Internal Switch	LM5180-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Drivers						
Non-isolated Gate Drivers	TPM2015Q-FC1R-S	Production	QFN2X2-10	Single-Channel Ultra-Highspeed GaN Pre Driver	LMG1025-Q1	Lidar, OBC, DCDC
Non-isolated Gate Drivers	TPM2025Q-FC1R-S	Production	QFN2X2-10	2CH, 5V, 7A, GaN Driver	LMG1025-Q1	Lidar, OBC, DCDC
Non-isolated Gate Drivers	TPM27524Q-DF4R-S	Production	DFN2X2-8	2CH, 25V 5A, Low Side Gate Driver	UCC27524A-Q1	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station
Non-isolated Gate Drivers	TPM27524Q-EV1R-S	Production	EMSOP8	2CH, 25V 5A, Low Side Gate Driver	UCC27524A-Q1	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station
Non-isolated Gate Drivers	TPM27524Q-SO1R-S	Production	SOP8	2CH, 25V 5A, Low Side Gate Driver	UCC27524A-Q1	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station
DC Motor Drivers	TPM92611Q-EV1R-S	Production	EMSOP8	40V 450mA Linear LED Driver with Diagnostics	TPS92611	Lighting System

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Drivers						
Stepper Motor Drivers	TPM6501AQ-S5TR-S	Production	SOT23-5	30V, 1A, Push-pull Isolated DCDC, 160 kHz	SN6501-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, BMS
Stepper Motor Drivers	TPM6505AQ-S6TR-S	Production	SOT23-6	30V, 1A, Push-pull Isolated DCDC, 160 kHz	SN6505A-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, BMS
Stepper Motor Drivers	TPM6505BQ-S6TR-S	Production	SOT23-6	30V, 1A, Push-pull Isolated DCDC, 160 kHz	SN6505B-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, BMS
Interface						
CAN	TPT1042VQ-DF6R-S	Production	DFN3X3-8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network inVehcile, Generic Components
CAN	TPT1042VQ-SO1R-S	Production	SOP8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network inVehcile, Generic Components
CAN	TPT1042EVQ-SO1R-S	Production	SOP8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network inVehcile, Generic Components
CAN	TPT1042Q-DF6R-S	Production	DFN3X3-8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network inVehcile, Generic Components
CAN	TPT1042Q-SO1R-S	Production	SOP8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network inVehcile, Generic Components
CAN	TPT1043Q-DFKR-S	Production	DFN4.5X3-14	CAN FD, 70V, Standby, Local and Remote Wake up	TJA1043, TCAN1043	CAN Network inVehcile, Generic Components
CAN	TPT1043EQ-DFKR-S	Production	DFN4.5X3-14	CAN FD, 70V, Standby, Local and Remote Wake up	TJA1043, TCAN1043	CAN Network inVehcile, Generic Components
CAN	TPT1043EQ-SO2R-S	Production	SOP14	CAN FD, 70V, Standby, Local and Remote Wake up	TJA1043, TCAN1043	CAN Network inVehcile, Generic Components
CAN	TPT1043Q-SO2R-S	Production	SOP14	CAN FD, 70V, Standby, Local and Remote Wake up	TJA1043, TCAN1043	CAN Network inVehcile, Generic Components
CAN	TPT1044Q-SO1R-S	Production	SOP8	CAN FD up to 5Mbps, 42V BUS, Standby	TJA1044, TCAN1044	CAN Network inVehcile, Generic Components
CAN	TPT1044VQ-DFCR-S	Production	DFN3X3-8	CAN FD up to 5Mbps, 42V BUS, Standby, Pin5=VIO	TJA1044, TCAN1044	CAN Network inVehcile, Generic Components
CAN	TPT1044VQ-SO1R-S	Production	SOP8	CAN FD up to 5Mbps, 42V BUS, Standby, Pin5=VIO	TJA1044, TCAN1044	CAN Network inVehcile, Generic Components
CAN	TPT1051Q-DF6R-S	Production	DFN3X3-8	CAN FD, 70V CAN BUS	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1051Q-SO1R-S	Production	SOP8	CAN FD, 70V CAN BUS	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1051VQ-DF6R-S	Production	DFN3X3-8	CAN FD, 70V CAN BUS	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1051VQ-SO1R-S	Production	SOP8	CAN FD, 70V CAN BUS	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1057Q-DFCR-S	Production	DFN3X3-8	CAN FD up to 5Mbps, 42V BUS, Silent, Pin5=NC	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1057Q-SO1R-S	Production	SOP8	CAN FD up to 5Mbps, 42V BUS, Silent, Pin5=NC	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1057VQ-DFCR-S	Production	DFN3X3-8	CAN FD up to 5Mbps, 42V BUS, Silent, Pin5=VIO	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1145NQ-DFKR-S	Production	DFN4.5X3-14	CAN FD, 70V, Silent, Selective Wake Up/Wake-Up	TJA1145, TCAN1145	CAN Network inVehcile, Generic Components
CAN	TPT1145NQ-SO2R-S	Production	SOP14	CAN FD, 70V, Silent, Selective Wake Up/Wake-Up	TJA1145, TCAN1145	CAN Network inVehcile, Generic Components
CAN	TPT1462Q-SO1R-S	Production	SOP8	CAN SIC up to 8Mbps, 42V BUS, Standby	TJA1462, TCAN1462	CAN Network inVehcile, Generic Components
CAN	TPT1462VQ-DFCR-S	Production	DFN3X3-8	CAN SIC up to 8Mbps, 42V BUS, Standby, Pin5=VIO	TJA1462, TCAN1462	CAN Network inVehcile, Generic Components
CAN	TPT1462VQ-SO1R-S	Production	SOP8	CAN SIC up to 8Mbps, 42V BUS, Standby, Pin5=VIO	TJA1462, TCAN1462	CAN Network inVehcile, Generic Components
LIN	TPT1021EQ-DFCR-S	Production	DFN3X3-8	45V LIN BUS, 1CH	TJA1021	LIN Network inVehcile, Generic Components
LIN	TPT1021EQ-SO1R-S	Production	SOP8	45V LIN BUS, 1CH	TJA1021	LIN Network inVehcile, Generic Components
LIN	TPT1021Q-DFCR-S	Production	DFN3X3-8	45V LIN BUS, 1CH	TJA1021	LIN Network inVehcile, Generic Components
LIN	TPT1021Q-SO1R-S	Production	SOP8	45V LIN BUS, 1CH	TJA1021	LIN Network inVehcile, Generic Components
LIN	TPT1022Q-DFKR-S	Production	DFN4.5X3-14	45V LIN BUS, 2CH	TJA1022	LIN Network inVehcile, Generic Components
LIN	TPT1022Q-SO2R-S	Production	SOP14	45V LIN BUS, 2CH	TJA1022	LIN Network inVehcile, Generic Components
LIN	TPT1024Q-QFXR-S	Production	QFN5.5X3.5-24	45V LIN BUS, 4CH	TJA1024	LIN Network inVehcile, Generic Components
LIN	TPT1029Q-DFCR-S	Production	DFN3X3-8	LIN Transceiver, 40V BUS without INH, Wake Pin, Wettable Flank	TJA1029	LIN Network inVehcile, Generic Components

Automotive Products List

Status as of 1 June, 2025

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Interface						
LIN	TPT1029Q-S01R-S	Production	SOP8	LIN Transceiver, 40V BUS without INH, Wake Pin	TJA1029	LIN Network inVehcile, Generic Components
SBC	TPT10283Q-DFCR-S	Production	DFN3X3-8	3.3V, 125mA, LIN SBC	TJA1028	LIN Network inVehcile, BCM
SBC	TPT10283Q-S01R-S	Production	SOP8	3.3V, 125mA, LIN SBC	TJA1028	LIN Network inVehcile, BCM
SBC	TPT10285Q-DFCR-S	Production	DFN3X3-8	5V, 125mA, LIN SBC	TJA1028	LIN Network inVehcile, BCM
SBC	TPT10285Q-ES1R-S	Production	ESOP8	5V, 125mA, LIN SBC	TJA1028	LIN Network inVehcile, BCM
SBC	TPT10285Q-S01R-S	Production	SOP8	5V, 125mA, LIN SBC	TJA1028	LIN Network inVehcile, BCM
IO Expander	TPT29548T-QF8R-S	Production	QFN4X4-24	8CH I2C Switch with Reset	PCA9548, TCA9548	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
IO Expander	TPT29539Q-TS5R-S	Production	TSSOP24	I2C to 16bit GPIO Expander with Interrupt and Reset	TCA9539Q	Generic Components
Low-voltage Switch	TPW3188Q-QN4R-S	Production	QFN2.5X3.5-16	5V General Purpose SP8T Analog Switch, 500MHz	TMUX1308	Generic Components, Zonal
Low-voltage Switch	TPW3188Q-TS3R-S	Production	TSSOP16	5V General Purpose SP8T Analog Switch, 500MHz	TMUX1308	Generic Components, Zonal
Isolation						
Digital Isolators	TPT7720-S01R-S	Production	SOP8	2CH Enhanced High-Performance Digital Isolator	ISO7720	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7720F-S01R-S	Production	SOP8	2CH Enhanced High-Performance Digital Isolator	ISO7720F	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7720F-SOAR-S	Production	WSOP8	2CH Enhanced High-Performance Digital Isolator	ISO7720F	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7721-S01R-S	Production	SOP8	2CH Enhanced High-Performance Digital Isolator	ISO7721	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7721-SOAR-S	Production	WSOP8	2CH Enhanced High-Performance Digital Isolator	ISO7721	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7721-SOBR-S	Production	WSOP16	2CH Enhanced High-Performance Digital Isolator	ISO7721	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7721F-SOAR-S	Production	WSOP8	2CH Enhanced High-Performance Digital Isolator	ISO7721F	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7740F-SO3R-S	Production	SOP16	4CH Enhanced High-Performance Digital Isolator	ISO7740F	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7741-SOBR-S	Production	WSOP16	4CH Enhanced High-Performance Digital Isolator	ISO7741	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7741-SSAR-S	Production	QSOP16	4CH Enhanced High-Performance Digital Isolator	ISO7741	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7741F-SO3R-S	Production	SOP16	4CH Enhanced High-Performance Digital Isolator	ISO7741F	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7741F-SOBR-S	Production	WSOP16	4CH Enhanced High-Performance Digital Isolator	ISO7741F	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7742-SOBR-S	Production	WSOP16	4CH Enhanced High-Performance Digital Isolator	ISO7742	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
Digital Isolators	TPT7742F-SOBR-S	Production	WSOP16	4CH Enhanced High-Performance Digital Isolator	ISO7742F	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charing, Lighting System
LDO & Voltage Reference						
High-voltage LDO	TPL803133Q-DF6R-S	Production	DFN3X3-8	42V/300mA Wide Input Voltage Range, 3uA Ultra-Low Iq LDO	RTQ2569	Generic Components
High-voltage LDO	TPL803133Q-EV1R-S	Production	EMSOP8	42V/300mA Wide Input Voltage Range, 3uA Ultra-Low Iq LDO	TPS7B82-Q1	Generic Components
High-voltage LDO	TPL803150Q-DF6R-S	Production	DFN3X3-8	42V/300mA Wide Input Voltage Range, 3uA Ultra-Low Iq LDO	RTQ2569	Generic Components
High-voltage LDO	TPL803150Q-EV1R-S	Production	EMSOP8	42V/300mA Wide Input Voltage Range, 3uA Ultra-Low Iq LDO	TPS7B82-Q1	Generic Components
High-voltage LDO	TPL8032ADQ-ES1R-S	Production	ESOP8	20V/300mA, 79dB PSRR, 5.68uVrms Ultra-Low Noise LDO	TLS203,TPS763-Q1	Generic Components
High-voltage LDO	TPL803433Q-EV1R-S	Production	EMSOP8	High Voltage Sense and Low IQ Supervisory with Progr Ammable Delay	TPS7A66-Q1	Generic Components
High-voltage LDO	TPL803450Q-EV1R-S	Production	EMSOP8	42V/300mA Wide Input Voltage Range, 3uA Low Iq LDO with PG and Delay	TPS7A66-Q1	Generic Components
High-voltage LDO	TPL803533Q-DF6R-S	Production	DFN3X3-8	42V/300mA, 3-uA Low Quiescent Current, Low Dropout Linear Regulator	MPQ2013(fixed output)	Generic Components
High-voltage LDO	TPL803533Q-EV1R-S	Production	EMSOP8	42V/300mA, 3-uA Low Quiescent Current, Low Dropout Linear Regulator	TPS7B82-Q1	Generic Components
High-voltage LDO	TPL803550Q-DF6R-S	Production	DFN3X3-8	42V/300mA, 3-uA Low Quiescent Current, Low Dropout Linear Regulator	MPQ2013(fixed output)	Generic Components

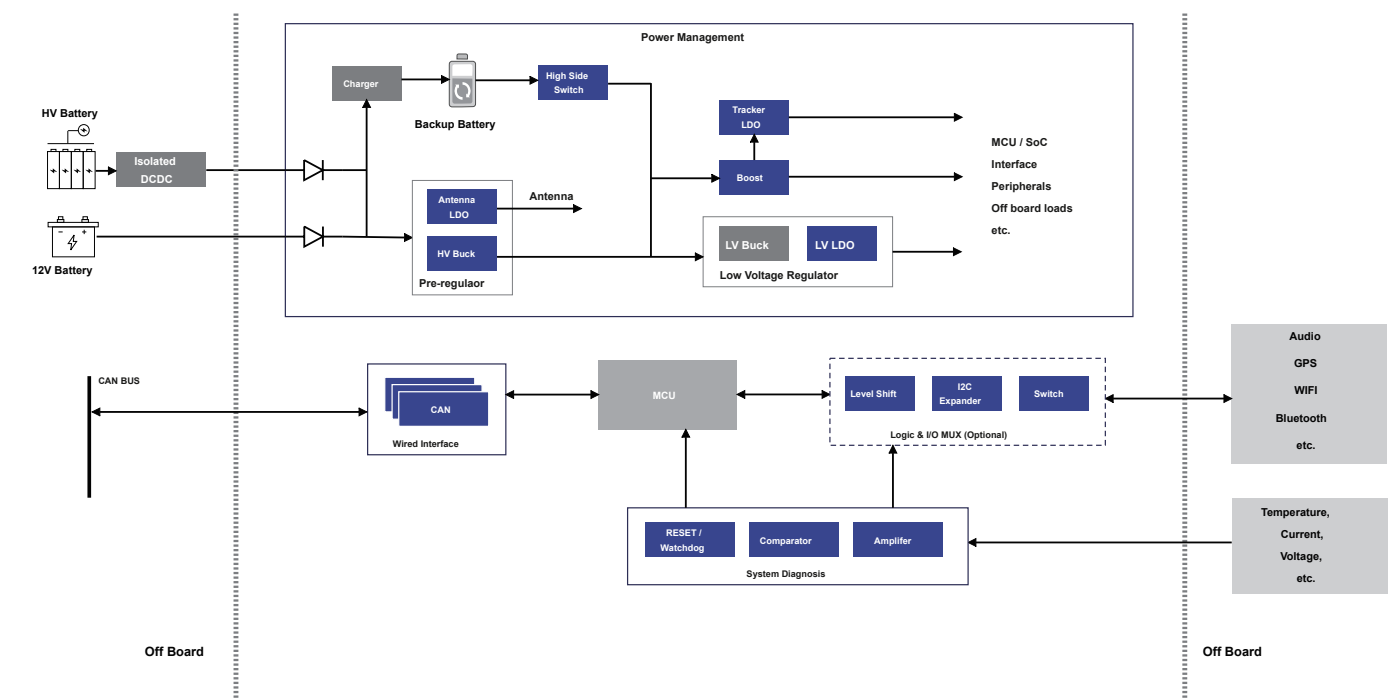
Category	Part Number	Status	Package	Description	Compatible P/N	Application
LDO & Voltage Reference						
High-voltage LDO	TPL803550Q-EV1R-S	Production	EMSOP8	42V/300mA, 3uA Low Quiescent Current, Low Dropout Linear Regulator	TPS7B82-Q1	Generic Components
High-voltage LDO	TPL8051ADQ-DFCR-S	Production	DFN3X3-8	42V/500mA Wide Input Voltage Range, 3uA low Iq LDO with PG and Delay	MPQ2013(adjustable output)	Generic Components
High-voltage LDO	TPL8151ADQ-ES1R-S	Production	ESOP8	29V/1.5A High-Current LDO	LD1086	Generic Components
High-voltage LDO	TPL853633Q-TSBR-S	Production	ETSSOP16	42V 300mA Wide-Input Low Quiescent Current LDO with Watchdog Timer	TPS7B63xx-Q1, TPS7A63xx-Q1	Generic Components
High-voltage LDO	TPL853650Q-TSBR-S	Production	ETSSOP16	42V/300mA LDO with Watchdog and Reset	TPS7B63xx-Q1, TPS7A63xx-Q1	Generic Components
High-voltage LDO	TPL855633Q-TSCR-S	Production	ETSSOP28	42V 300mA Wide-Input Low Quiescent Current LDO with Watchdog Timer	TPS7B68xx-Q1	Generic Components
High-voltage LDO	TPL855650Q-TSCR-S	Production	ETSSOP28	42V/500mA LDO with Watchdog and Reset	TPS7B68xx-Q1	Generic Components
High-voltage LDO	TPL8601Q-ES1R-S	Production	ESOP8	42V/150mA Voltage Tracking LDO with Output Feedback	TLS115	Generic Components
High-voltage LDO	TPL8602FQ-ES1R-S	Production	ESOP8	42V/250mA Voltage Tracking LDO with Output Feedback	TPS7B4253-Q1, TLE4253	Generic Components
High-voltage LDO	TPL8772Q-TSBR-S	Production	ETSSOP16	42V/300mA 2CH LDO with Accurate Current Sense and Protection	TPS7B7702	Antenna
High-voltage LDO	TPL803133Q-ST4R-S	Production	SOT223-3	42V/300mA Wide Input Voltage Range, 3uA Ultra-Low Iq LDO	TPS7B69-Q1	Generic Components
High-voltage LDO	TPL803150Q-ST4R-S	Production	SOT223-3	42V/300mA Wide Input Voltage Range, 3uA Ultra-Low Iq LDO	TPS7B69-Q1	Generic Components
Low-voltage LDO	TPL905212-S5TR-S	Production	SOT23-5	5.5V, 500mA High PSRR, Ultra-Low Noise LDO	LP5907-Q1	Generic Components
Low-voltage LDO	TPL905215-S5TR-S	Production	SOT23-5	5.5V, 500mA High PSRR, Ultra-Low Noise LDO	LP5907-Q1	Generic Components
Low-voltage LDO	TPL905218-S5TR-S	Production	SOT23-5	5.5V, 500mA High PSRR, Ultra-Low Noise LDO	LP5907-Q1	Generic Components
Low-voltage LDO	TPL905225-S5TR-S	Production	SOT23-5	5.5V, 500mA High PSRR, Ultra-Low Noise LDO	LP5907-Q1	Generic Components
Low-voltage LDO	TPL905228-S5TR-S	Production	SOT23-5	5.5V, 500mA High PSRR, Ultra-Low Noise LDO	LP5907-Q1	Generic Components
Low-voltage LDO	TPL905230-S5TR-S	Production	SOT23-5	5.5V, 500mA High PSRR, Ultra-Low Noise LDO	LP5907-Q1	Generic Components
Low-voltage LDO	TPL905233-S5TR-S	Production	SOT23-5	5.5V, 500mA High PSRR, Ultra-Low Noise LDO	LP5907-Q1	Generic Components
Low-voltage LDO	TPL905236-S5TR-S	Production	SOT23-5	5.5V, 500mA High PSRR, Ultra-Low Noise LDO	LP5907-Q1	Generic Components
Low-voltage LDO	TPL910ADJQ-DF6R-S	Production	DFN3X3-8	5.5V/1A, 78dB PSRR, 4.9uVrms Ultra-Low Noise,Adjustable Output Voltage LDO	TPS7A8101-Q1, RTQ2510, MPQ25001, NCV59800	Generic Components
Series Voltage Reference	TPR3312-S3TR-S	Production	SOT23G-3	High Accuracy, Low Temp-Co Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3320-S3TR-S	Production	SOT23G-3	High Accuracy, Low Temp-Co Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3325-S3TR-S	Production	SOT23G-3	High Accuracy, Low Temp-Co Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3330-S3TR-S	Production	SOT23G-3	High Accuracy, Low Temp-Co Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3333-S3TR-S	Production	SOT23G-3	High Accuracy, Low Temp-Co SeriesVoltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3340-S3TR-S	Production	SOT23G-3	High Accuracy, Low Temp-Co Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR431B-S3TR-S	Production	SOT23G-3	High Accuracy, Low Temp-Co Series Voltage Reference	TL431-Q1	Generic Components
Series Voltage Reference	TPR433BQ-3SSTR-S	Production	SOT23G-3	High Accuracy, Low Temp-Co Series Voltage Reference	TL431-Q1	Generic Components
Shunt Voltage Reference	TPR6040F20-S3TR-S	Production	SOT23G-3	0.1%, 25ppm/ ° C Shunt Voltage Reference	LM4040, TL4040,ADR504x	Generic Components
Shunt Voltage Reference	TPR6040F25-S3TR-S	Production	SOT23G-3	0.1%, 25ppm/ ° C Shunt Voltage Reference	LM4040, TL4040,ADR504x	Generic Components
Shunt Voltage Reference	TPR6040F30-S3TR-S	Production	SOT23G-3	0.1%, 25ppm/ ° C Shunt Voltage Reference	LM4040, TL4040,ADR504x	Generic Components
Shunt Voltage Reference	TPR6040F33-S3TR-S	Production	SOT23G-3	0.1%, 25ppm/ ° C Shunt Voltage Reference	LM4040, TL4040,ADR504x	Generic Components
Shunt Voltage Reference	TPR6040F40-S3TR-S	Production	SOT23G-3	0.1%, 25ppm/ ° C Shunt Voltage Reference	LM4040, TL4040,ADR504x	Generic Components
Shunt Voltage Reference	TPR6040F50-S3TR-S	Production	SOT23G-3	0.1%, 25ppm/ ° C Shunt Voltage Reference	LM4040, TL4040,ADR504x	Generic Components

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Power Switches						
Ideal Diode Controller	TPS65R01Q-S6TR-S	Production	SOT23-6	65V Ideal Diode Controller	LM74700	Generic Components
Supervisors						
Reset ICs	TPV6820SQ-S5TR-S	Production	SOT23-5	Low-Voltage Supervisory Circuit with Watchdog and Manual Reset		Generic Components
Reset ICs	TPV6823SQ-S5TR-S	Production	SOT23-5	Low-Voltage Supervisory Circuit with Watchdog and Manual Reset		Generic Components
Reset ICs	TPV710NTQ-S5TR-S	Production	SOT23-5	Watchdog with Enable Control	STWD100	Generic Components
Reset ICs	TPV8368SAQ-S6TR-S	Production	SOT23-6	Ultra Fast Delay Time, Nano Power Supervisory with Progr Ammable Delay Time	R3121N030E-TR-KE	Generic Components
Reset ICs	TPV8368SZQ-S5TR-S	Production	SOT23-5	Ultra Fast Delay Time, Nano Power Supervisory with Progr Ammable Delay Time	R3121N030E-TR-KE	Generic Components
Reset ICs with Watchdog	TPV710NWQ-S5TR-S	Production	SOT23-5	Watchdog with Enable Control	STWD100	Generic Components
Reset ICs with Watchdog	TPV710NYQ-S5TR-S	Production	SOT23-5	Watchdog with Enable Control	STWD100	Generic Components
Reset ICs with Watchdog	TPV710NZQ-S5TR-S	Production	SOT23-5	Watchdog with Enable Control	STWD100	Generic Components

Automotive Applications Solutions

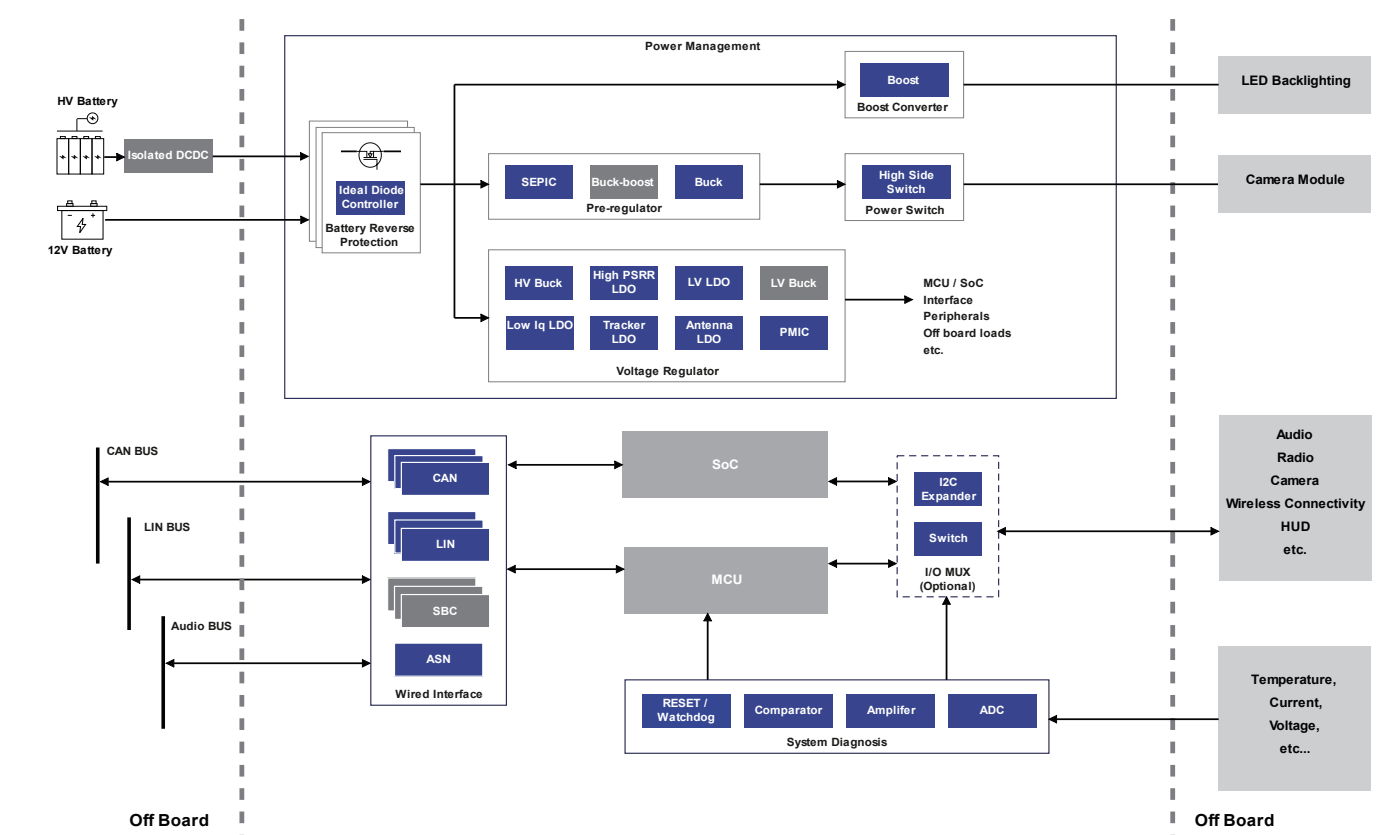
T-Box

T-Box is a communication box responsible for communication inside the vehicle. Depending on the type of communication, its functions can be divided into two aspects: remote wireless communication and local communication inside the vehicle. On the one hand, T-Box receives remote control signals through wireless networks such as cellular networks, Bluetooth, and WiFi. After decoding, it reports to the vehicle control system through local networks such as the CAN bus to achieve remote control of the vehicle. On the other hand, T-Box can also read vehicle information in real time, report it to the cloud through wireless networks, and ultimately provide feedback to the remote terminal.



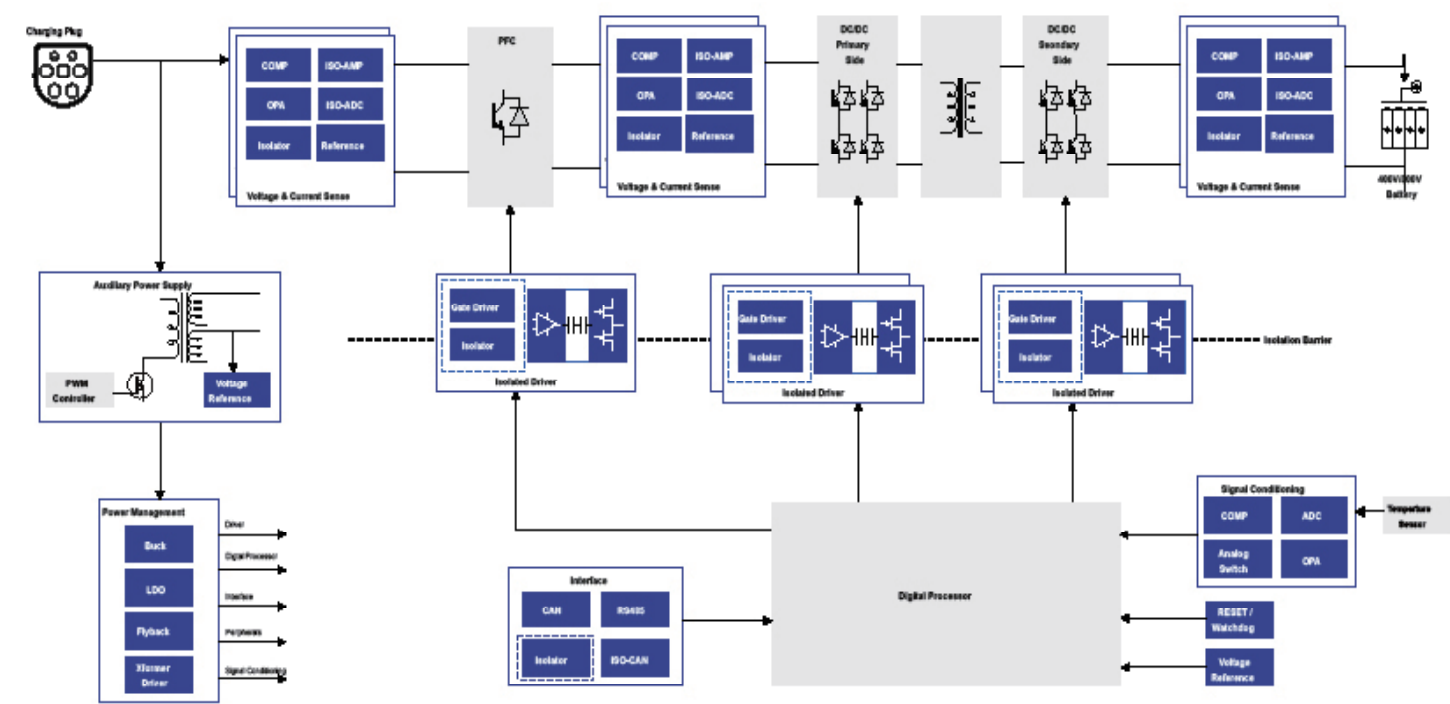
Infotainment

The in-vehicle entertainment system is the bridge for human-machine interaction. With the intelligence and network connectivity of vehicles, the in-vehicle entertainment system is developing towards higher integration and intelligence, which also puts higher performance requirements on the entire hardware system.



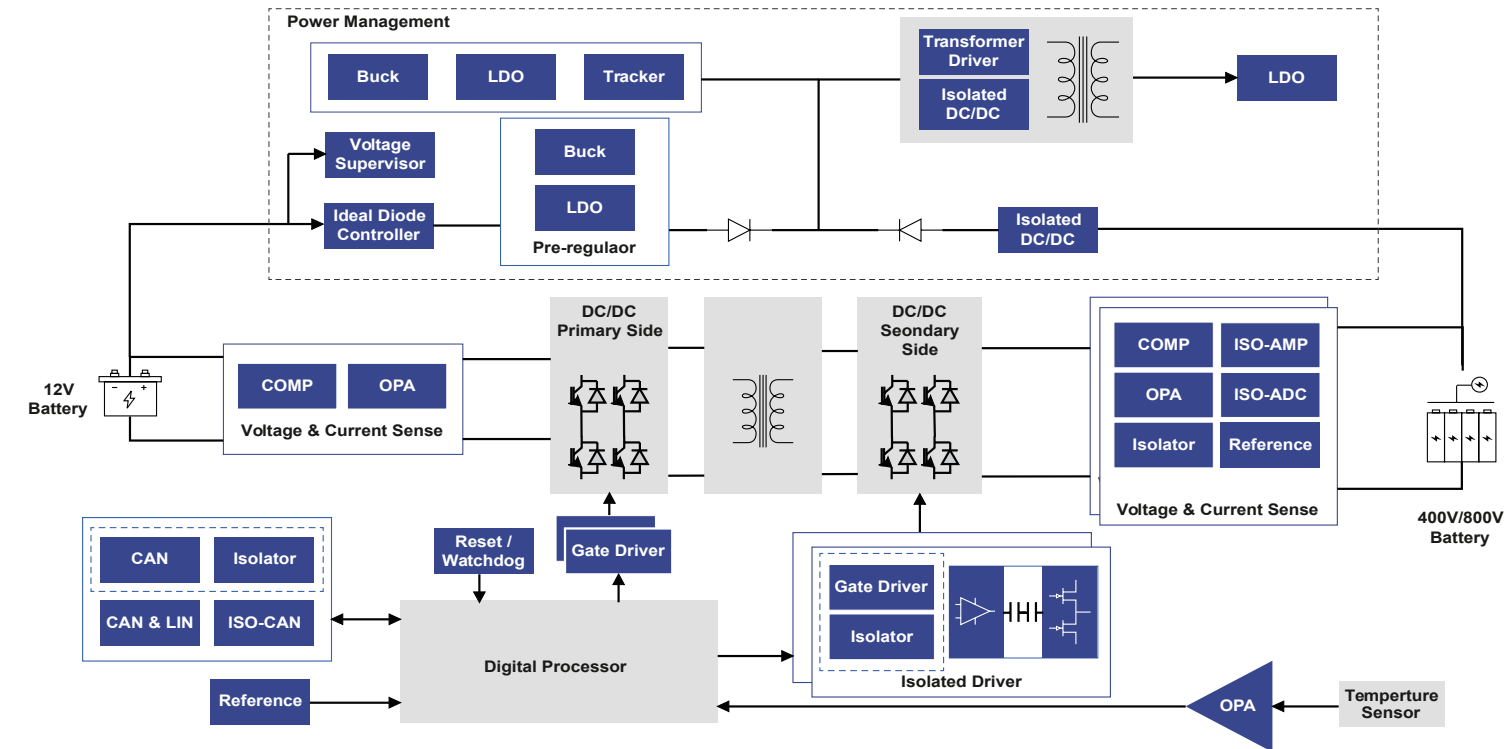
On-board Charger (OBC)

The On-board Charger (OBC) is responsible for charging management of the vehicle's battery. With the rapid increase in energy density of new electric vehicles, the demand for fast charging is becoming more and more popular, and the control system of OBC is becoming more and more complex. Ensuring the efficient operation of the OBC while guaranteeing its stability and reliability becomes increasingly important.



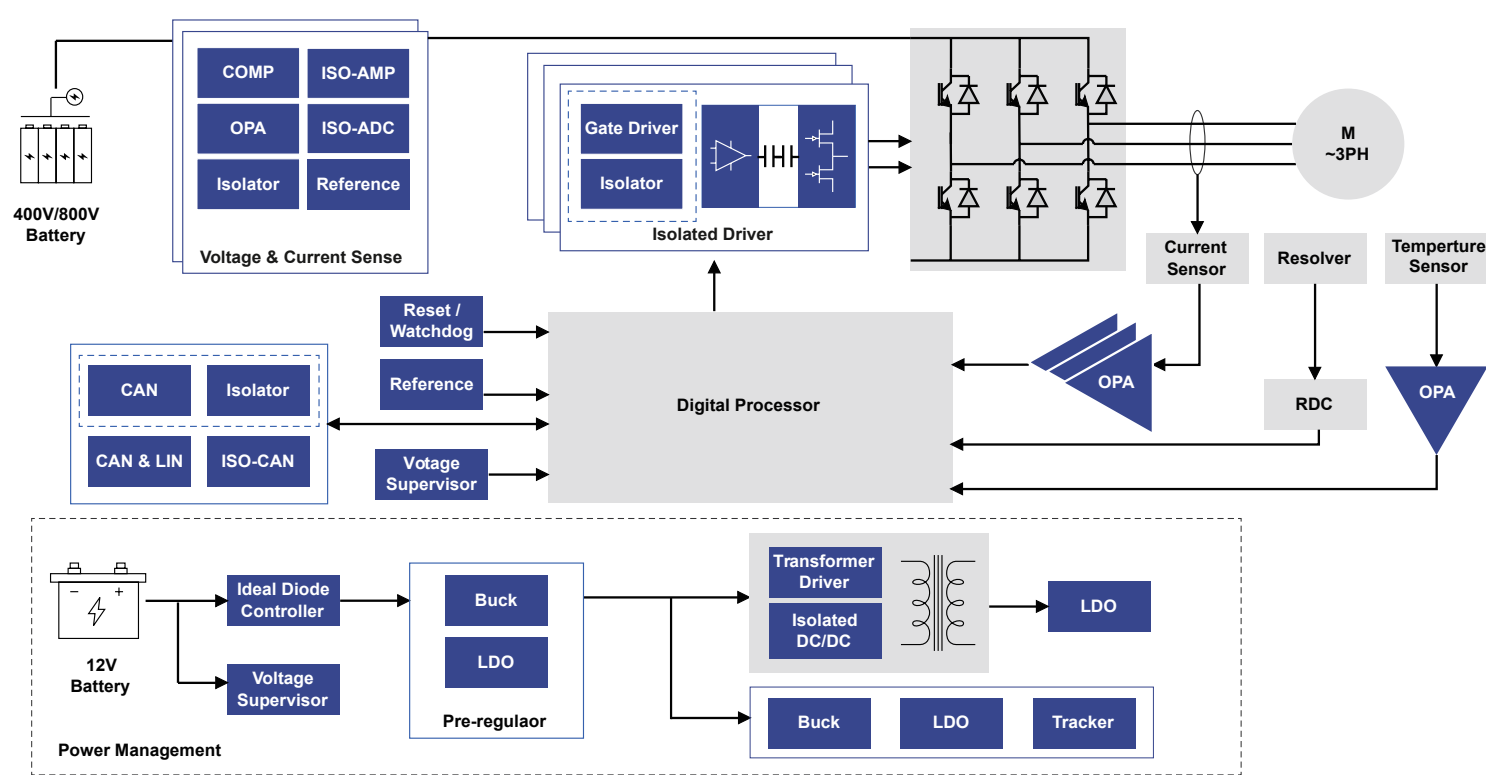
HV/LV DCDC

The power source of an electric vehicle comes from a high-voltage power battery, but its control systems such as the cabin, body, and chassis are still powered by a 12V battery. The role of a high-low voltage DC converter is to convert the electrical energy of the high-voltage power battery into the low 12V battery energy, thereby providing energy for the control system.



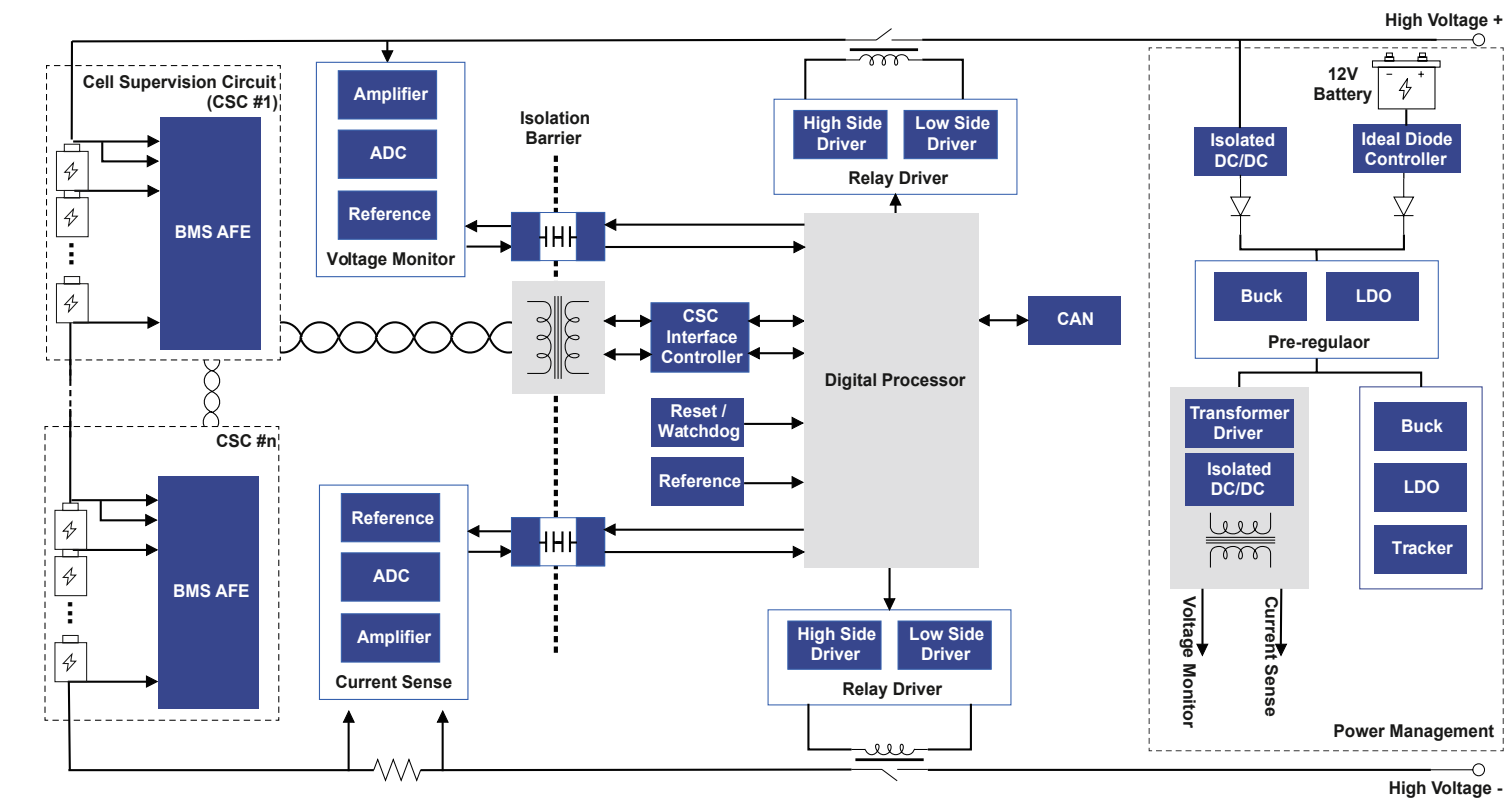
Traction Inverter

The traction motor is one of the core power devices of new energy vehicles. Its function is to convert electrical energy of the power battery into mechanical energy to drive the vehicle forward. Performance differences of the traction motor will directly affect the power performance of the electric vehicle. High voltage, high speed, large torque, wide speed range, and strong overload capacity are performance requirements for traction inverters which necessitates its drive system to have high reliability, steady-state accuracy, and dynamic performance.



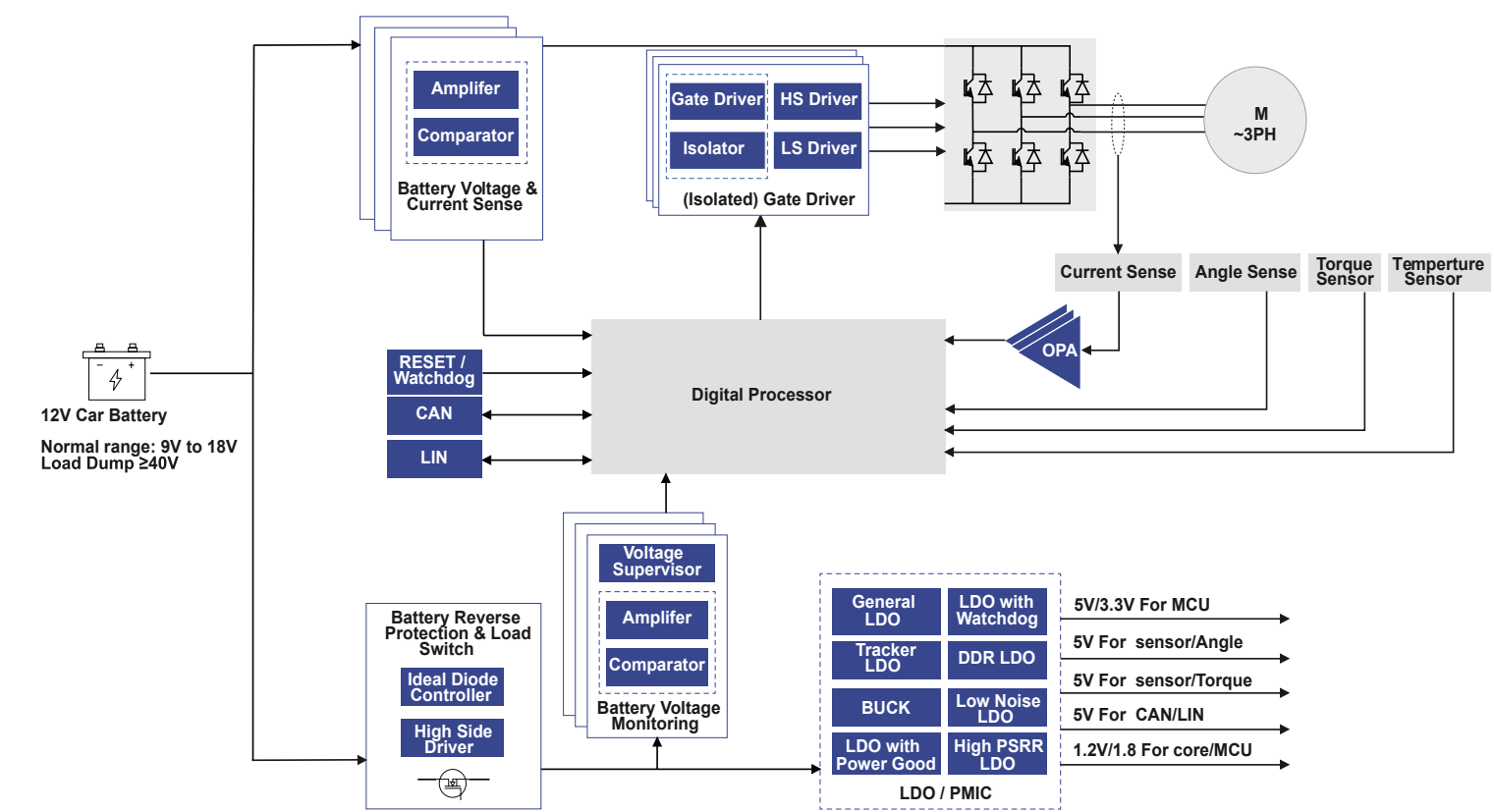
Automotive BMS

The vehicle power battery is the power source for electric vehicles. It has a high capacity and energy density. The vehicle power battery works in a complex environment with long service life and requires consistent reliability. The on-board battery management system needs to meet requirements such as high control precision and low system complexity. The integration of the BMS AFE, which combines signal monitoring and conditioning circuits, simplifies the circuit design and therefore improves battery performance and system reliability.



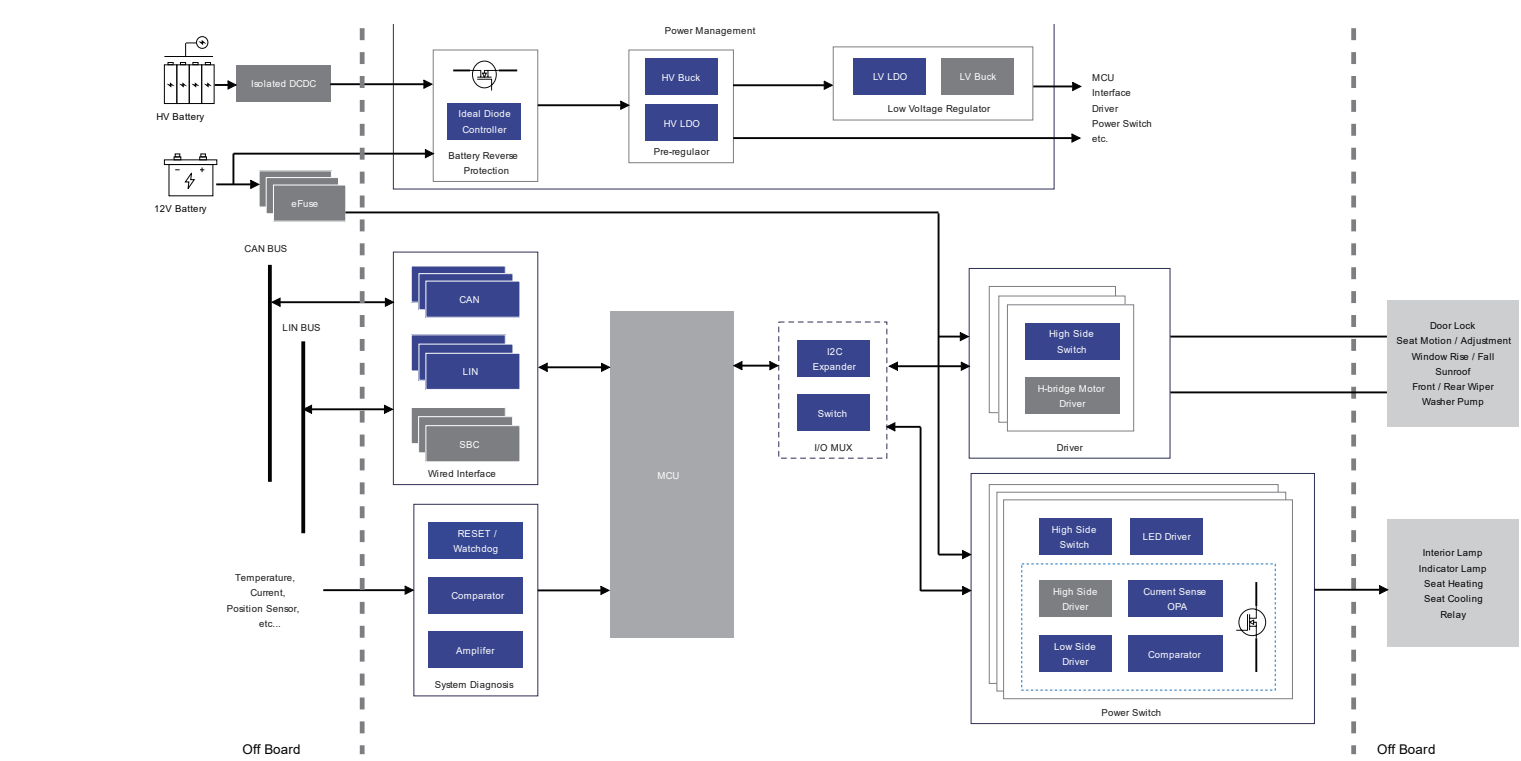
Electric Power Steering (EPS)

EPS, or electric power steering, provides steering assistance directly through an electric motor. Compared with traditional hydraulic steering systems, EPS features a simpler structure, flexible assembly, and offers energy savings.



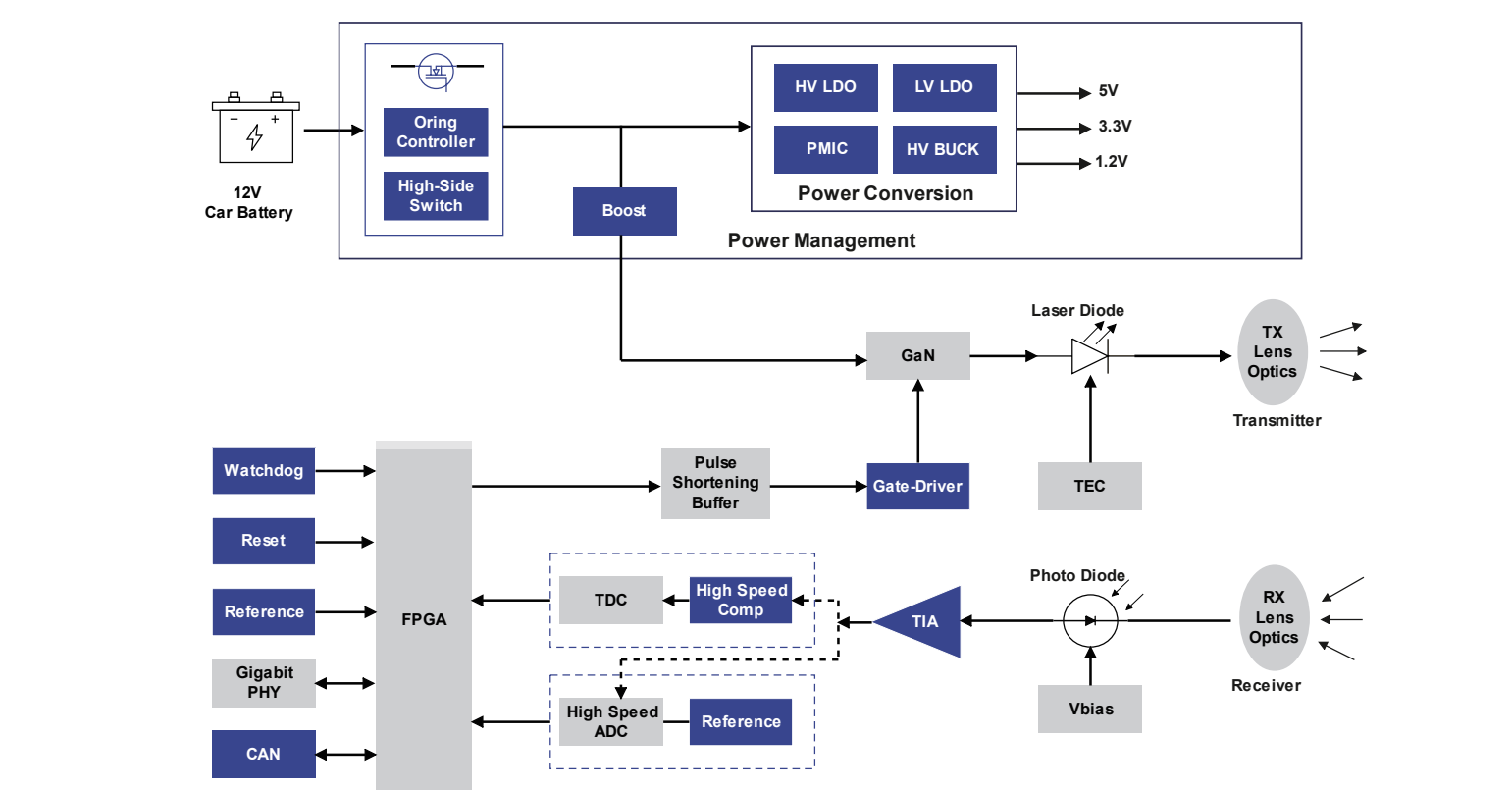
Body Domain Controller

The body domain controller is used to control body-related functional modules such as doors, windows, seats, lights, and air conditioning. The basic functions of the system need to include diagnostic monitoring, drive output, network communication, and other features.



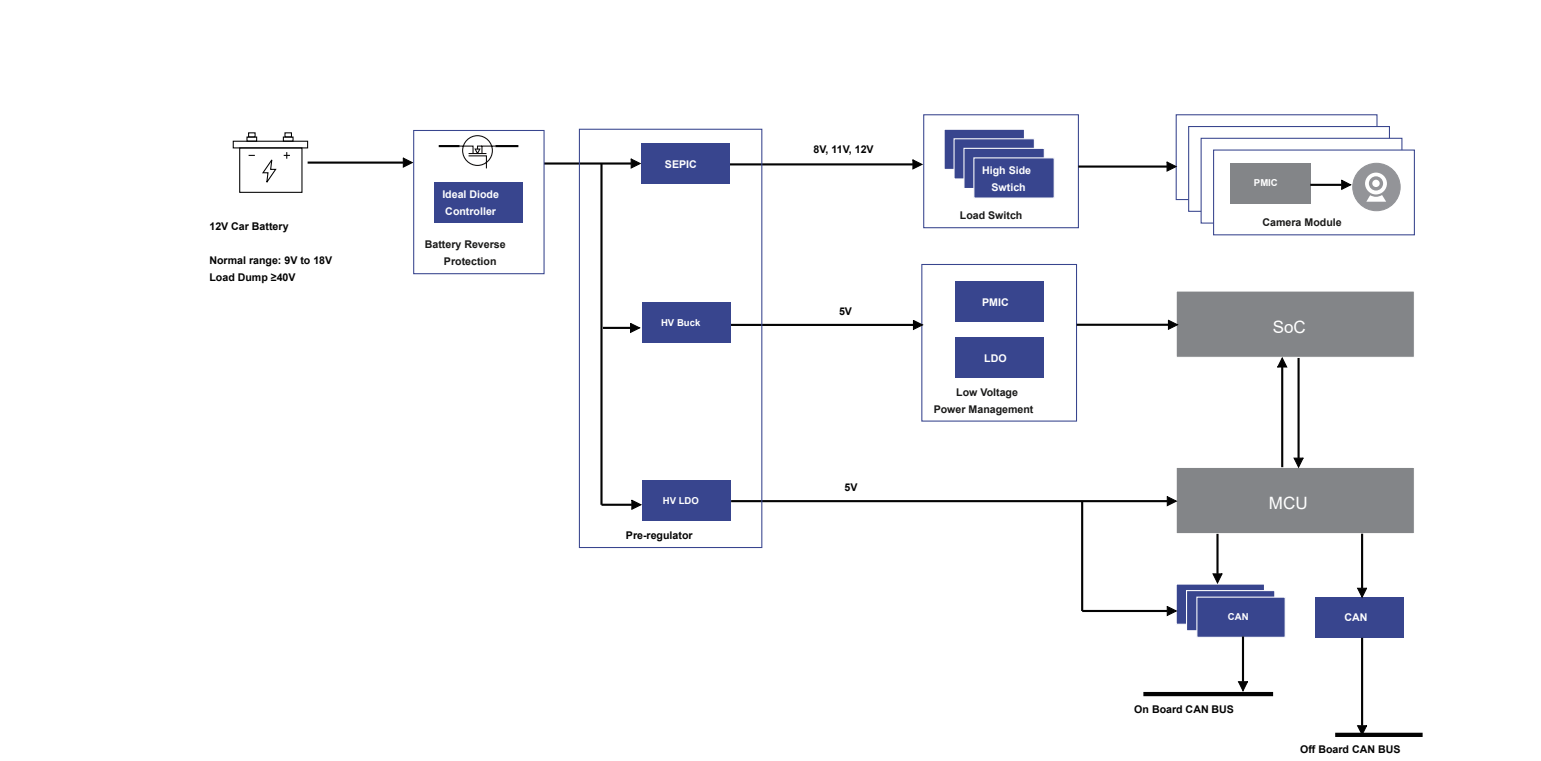
LiDAR

LiDAR is a technology that uses a pulsed laser to measure the distance between objects. Advanced Driver Assistance Systems (ADAS) rely on LiDAR technology to analyze a car's environment and identify obstructions. The vast majority of automakers consider LiDAR as an essential functional module in vehicles, its performance directly affects the reliability and practicality of ADAS.



Camera Module

With vehicles having more and more intelligent sensing systems, the number of cameras in vehicles is increasing. In the vehicle camera system, 3PEAK can provide ideal diode controllers, pre-regulators, and high-side switches to help customers achieve battery anti-reverse control, power conversion, and load management.





INNOVATIVE TECHNOLOGY DRIVING A BETTER AUTOMOTIVE FUTURE

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