



AUTOMOTIVE ANALOG PRODUCTS

Signal Chain Products

Amplifiers

Analog
Switch

Comparators

Data
Converter

Interface

Power Management Products

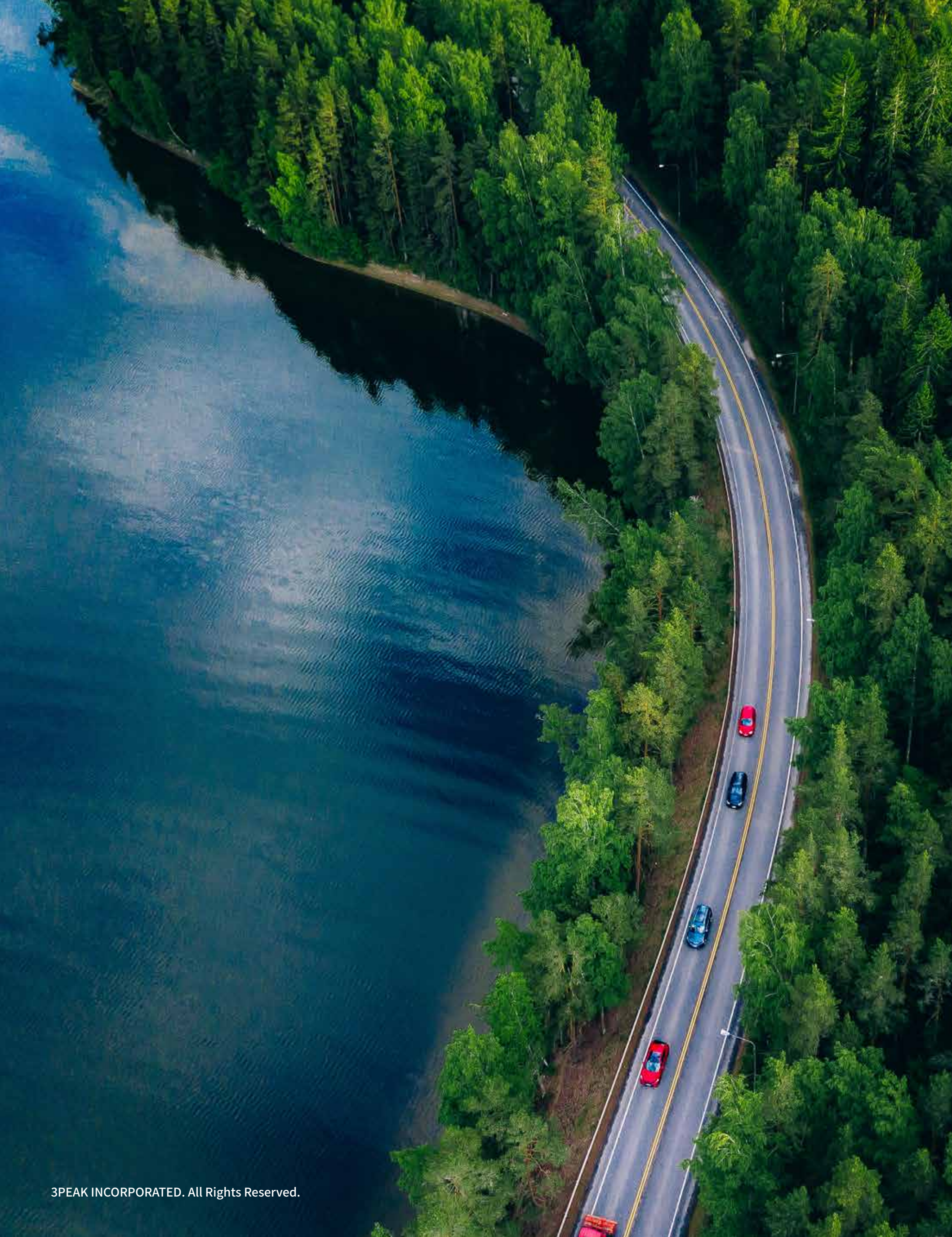
DCDC

Drivers

LDO & Voltage
Reference

Power
Switch

Supervisors



About 3PEAK

3PEAK is committed to the research and development of high-performance, high-quality, and highly reliable integrated circuit products, including signal chains, power analog chips, and mixed-signal front-ends to provide customers with all-around solutions. The applications of the products cover many fields such as communication, industrial, security monitoring, medical and health, instrumentation, new energy, and the automotive industry.

Established in 2012, 3PEAK was listed on the Shanghai Science and Technology Innovation Board on September 21, 2020. 3PEAK has Headquarters in Shanghai, China and Plano, Texas, USA.

688536
Stock Code(SSE)

2012
Founded

23+
Offices

750+
Employees

1600+
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.

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.



FuSa
ISO 26262



BCMS
ISO 22301



QMS
ISO 9001



CNAS
ISO 17025

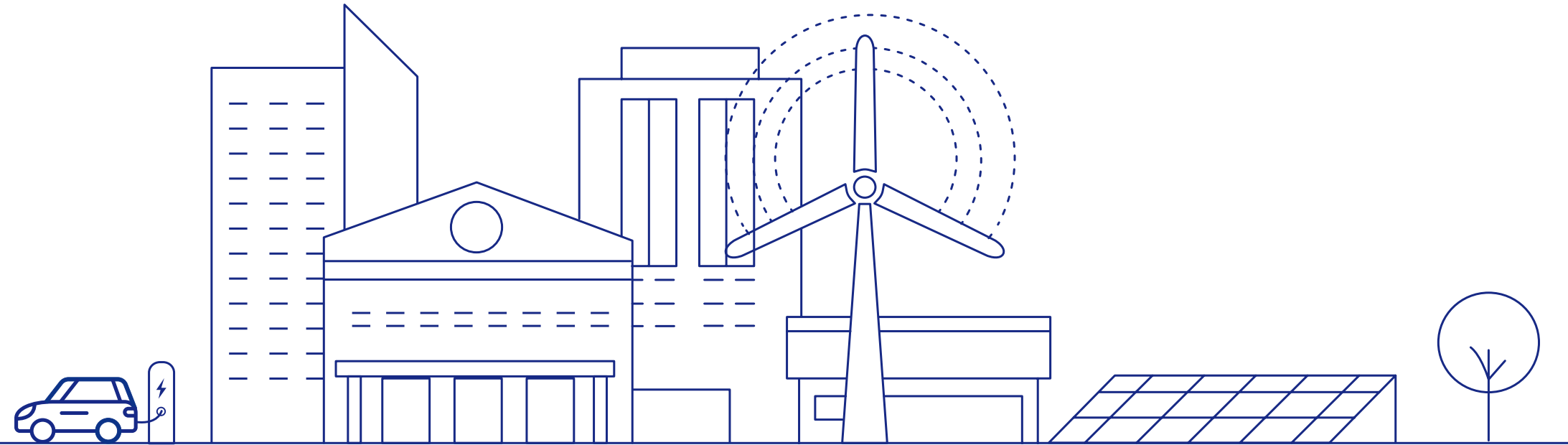


OHSMS
ISO 45001



EMS
ISO 14001

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 October, 2024

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, 4 CH Amplifier	LM2902	Generic Components, xEV
High-voltage OPA	LM2902A-TS2R-S	Production	TSSOP14	36V, 4 CH Amplifier	LM2902	Generic Components, xEV
High-voltage OPA	LM2904A-SO1R-S	Production	SOP8	36V, 2 CH Amplifier	LM2904	Generic Components, xEV
High-voltage OPA	LM2904A-TS1R-S	Production	TSSOP8	36V, 2 CH Amplifier	LM2904	Generic Components, xEV
High-voltage OPA	LM2904A-VS1R-S	Production	MSOP8	36V, 2 CH Amplifier	LM2904	Generic Components, xEV
High-voltage OPA	TP2261L1-S5TR-S	Production	SOT23-5	36V, High-slew rate, High-voltage, OPA, 1 CH	N/A	Generic Components
High-voltage OPA	TP2262L1-SO1R-S	Production	SOP8	36V, High-slew rate, High-voltage, OPA, 2 CH	N/A	Generic Components
High-voltage OPA	TPA2644-SO2R-S	Production	SOP14	High-voltage, High-PSRR, Low-noise OPA	N/A	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 Vos, Zero-drift Amplifier	OPA2197	Generic Components, xEV
uOPA	TP1561AL1-S5TR-S	Production	SOT23-5	6V, 6MHz RRIO OPA, 1 CH	N/A	Generic Components
uOPA	TP1562AL1-SO1R-S	Production	SOP8	6V, 6MHz RRIO OPA, 2 CH	N/A	Generic Components
uOPA	TP1562AL1-VS1R-S	Production	MSOP8	6V, 6MHz RRIO OPA, 2 CH	N/A	Generic Components
uOPA	TP1564AL1-SO2R-S	Production	SOP14	6V, 6MHz RRIO OPA, 4 CH	N/A	Generic Components
uOPA	TP1564AL1-TS2R-S	Production	TSSOP14	6V, 6MHz RRIO OPA, 4 CH	N/A	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	TSZ181	Generic Components
Zero-drift OPA	TPA5571NQ-S6TR-S	Preview	SOT23-6	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Zero-drift OPA	TPA5571Q-S5TR-S	Preview	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	TPA132A2Q-TS1R-S	Preview	TSSOP8	81Vcm, High-precision, Current Sense Amplifier	INA240, INA241	xEV
Current-sense Amplifiers	TPA191A2Q-SC6R-S	Preview	SOT363	36Vcm, 80kHz Current Sense, Bidirectional, G=50	INA199, INA191	Generic Components, xEV
Current-sense Amplifiers	TPA191A4Q-SC6R-S	Preview	SOT363	36Vcm, 30kHz Current Sense, Bidirectional, G=100	INA199, INA191	Generic Components, xEV
Current-sense Amplifiers	TPA2296T-S5TR-S	Production	SOT23-5	HV, High-side Current Sense Amplifier	N/A	Generic Components, xEV
Current-sense Amplifiers	TPA132A1Q-SO1R-S	Preview	SOP8	80Vcm, High-precision, Current Sense Amplifier	INA240, INA241	xEV
Current-sense Amplifiers	TPA132A2Q-SO1R-S	Sample	SOP8	81Vcm, High-precision, Current Sense Amplifier	INA240, INA241	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
Isolated Amplifiers	TPA8001Q-SOAR-S	Sample	WSOP8	±250mV or ±50mV Input ISO-OPA	AMC1300, AMC1301, NSI1300, Si8921	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station

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Category	Part Number	Status	Package	Description	Compatible P/N	Application
Analog Switch						
Low-voltage Switch	TPW3188Q-TS3R-S	Production	TSSOP16	5V General Purpose SP8T Analog Switch, 500MHz	TMUX1308	Generic Components
Comparators						
Comparators	LM2901A-SO2R-S	Production	SOP14	36V, General Comparator, BJT input, 4 CH	LM2901	Generic Components, xEV
Comparators	LM2901A-TS2R-S	Production	TSSOP14	36V, General Comparator, BJT input, 4 CH	LM2901	Generic Components, xEV
Comparators	LM2903A-SO1R-S	Production	SOP8	36V, General Comparator, BJT input, 2 CH	LM2903	Generic Components, xEV
Comparators	LM2903A-TS1R-S	Production	TSSOP8	36V, General Comparator, BJT input, 2 CH	LM2903	Generic Components, xEV
Comparators	LM2903A-VS1R-S	Production	MSOP8	36V, General Comparator, BJT input, 2 CH	LM2903	Generic Components, xEV
Comparators	LM2903DQ-SO1R-S	Production	SOP8	36V, General Comparator, BJT input, 2 CH	LM2903	Generic Components, xEV
Comparators	TPA2031Q-S5TR-S	Production	SOT23-5	5V, 100ns Comparator	TS3021	Generic Components, LiDAR
Data Converter						
Precision ADC	TPC5120Q-TS7R-S	Production	TSSOP38	12 bit, 1MSPS, 16 CH ADC	ADS7953-Q1	BMS, Infotainment
Precision ADC	TPC5121Q-TS8R-S	Preview	TSSOP30	12 bit, 1MSPS, 8 CH ADC	ADS7953-Q1	BMS, Infotainment
Precision ADC	TPC6160SQ-VS2R-S	Sample	MSOP10	16 bit, 32KSPS, 4 CH SDM ADC, SPI	ADS1118Q	BMS, Infotainment
Precision ADC	TPC6200SQ-VS2R-S	Preview	MSOP10	24 bit, 4 CH, SDM ADC, SPI	ADS1118Q	BMS, Infotainment
AFE	TPA626-VS2R-S	Production	MSOP10	36V, Bi-directional Current and Power Monitor	INA226	Generic Components
DCDC						
Boost	TPQ50551Q-DFTR-S	Preview	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 Charing, Lighting System
Boost	TPQ50551WQ-DFTR-S	Preview	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 Charing, Lighting System
Boost	TPQ5055Q-DFTR-S	Preview	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 Charing, Lighting System
Boost	TPQ50571Q-QFNR-S	Preview	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 Charing, Lighting System
Boost	TPQ50571WQ-QFNR-S	Preview	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 Charing, Lighting System
Boost	TPQ5180Q-DFMR-S	Sample	DFN4X4-8	65V, PSR Flyback DC/DC Converter with 100V, 2A Internal Switch	N/A	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charing, Lighting System
Buck	TPP363070Q-FC6R-S	Sample	QFN2X3-12	3V-36V Vin, 3A Synchronous Step-Down Regulator, 400kHz	LMR33630-Q1	Generic Components
Buck	TPP363072Q-FC6R-S	Sample	QFN2X3-12	3V-36V Vin, 3A Synchronous Step-Down Regulator, 2.1MHz	LMR33630-Q1	Generic Components
PMIC	TPU25401Q-FS5R-S	Preview	QFN6X6-48	5 Bucks, 5 LDOs, Configurable PMIC for Semidrive X9E/M		Infotainment
Drivers						
Isolated Gate Drivers	TPM5350MQ-SOAR-S	Sample	WSOP8	40V, 5A Isolated Gate Driver, Miller Clamp	UCC5350MC, NSI6601	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station
Non-isolated Gate Drivers	TPM2015Q-FC1R-S	Production	QFN2X2-10	Automotive Single-channel Ultra-highspeed GaN Predriver	LMG1025-Q1	LiDAR
Non-isolated Gate Drivers	TPM2025Q-FC1R-S	Production	QFN2X2-10	2 CH, 5V, 7A, GaN Driver	LMG1025-Q1	LiDAR
Non-isolated Gate Drivers	TPM27524Q-DF4R-S	Production	DFN2X2-8	2 CH, 25V, 5A, Lowside Gate Driver	UCC27524A-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station
Non-isolated Gate Drivers	TPM27524Q-EV1R-S	Production	EMSOP8	2 CH, 25V, 5A, Lowside Gate Driver	UCC27524A-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station
Non-isolated Gate Drivers	TPM27524Q-SO1R-S	Production	SOP8	2 CH, 25V, 5A, Lowside Gate Driver	UCC27524A-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station
DC Motor Drivers	TPM92611Q-EV1R-S	Preview	EMSOP8	40V, 450mA, Linear LED Driver with Dagnostics	TPS92610	Lighting System

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Category	Part Number	Status	Package	Description	Compatible P/N	Application
Drivers						
Stepper Motor Drivers	TPM6501AQ-S5TR-S	Preview	SOT23-5	30V, 1A, Push-pull Isolated DCDC, 160kHz	SN6501-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, BMS
Stepper Motor Drivers	TPM6505AQ-S6TR-S	Preview	SOT23-6	30V, 1A, Push-pull Isolated DCDC, 160kHz	SN6505A-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, BMS
Stepper Motor Drivers	TPM6505BQ-S6TR-S	Preview	SOT23-6	30V, 1A, Push-pull Isolated DCDC, 160kHz	SN6505B-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, BMS
Interface						
CAN	TPT1042EVQ-SO1R-S	Production	SOP8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1042Q-DF6R-S	Production	DFN3X3-8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1042Q-SO1R-S	Production	SOP8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1042VQ-DF6R-S	Production	DFN3X3-8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1042VQ-SO1R-S	Production	SOP8	CAN FD, 70V, Standby	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1043EQ-DFKR-S	Production	DFN4.5X3-14	CAN FD, 70V, Standby, Local and Remote Wake up	TJA1043, TCAN1041	CAN Network in Vehcile, Generic Components
CAN	TPT1043EQ-SO2R-S	Production	SOP14	CAN FD, 70V, Standby, Local and Remote Wake up	TJA1043, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1043Q-DFKR-S	Production	DFN4.5X3-14	CAN FD, 70V, Standby, Local and Remote Wake up	TJA1043, TCAN1043	CAN Network in Vehcile, Generic Components
CAN	TPT1043Q-SO2R-S	Production	SOP14	CAN FD, 70V, Standby, Local and Remote Wake up	TJA1043, TCAN1043	CAN Network in Vehcile, Generic Components
CAN	TPT1044VQ-DFCR-S	Preview	DFN3X3-8	CAN FD up to 5Mbps, 42V BUS, Standby, Pin5=VIO	TJA1044, TCAN1043	CAN Network in Vehcile, Generic Components
CAN	TPT1044VQ-SO1R-S	Preview	SOP8	CAN FD up to 5Mbps, 42V BUS, Standby, Pin5=VIO	TJA1044, TCAN1043	CAN Network in Vehcile, Generic Components
CAN	TPT1051Q-DF6R-S	Production	DFN3X3-8	CAN FD, 70V, CAN BUS	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1051Q-SO1R-S	Production	SOP8	CAN FD, 70V, CAN BUS	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1051VQ-DF6R-S	Production	DFN3X3-8	CAN FD, 70V, CAN BUS	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1051VQ-SO1R-S	Production	SOP8	CAN FD, 70V, CAN BUS	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1057Q-DFCR-S	Sample	DFN3X3-8	CAN FD up to 5Mbps, 42V BUS, Silent, Pin5=NC	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1057Q-SO1R-S	Sample	SOP8	CAN FD up to 5Mbps, 42V BUS, Silent, Pin5=NC	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1145NQ-DFKR-S	Production	DFN4.5X3-14	CAN FD, 70V, Silent, Selective Wake Up/Wake-up Frame	TJA1145, TCAN1145	CAN Network in Vehcile, Generic Components
CAN	TPT1145NQ-SO2R-S	Production	SOP14	CAN FD, 70V, Silent, Selective Wake Up/Wake-up Frame	TJA1145, TCAN1145	CAN Network in Vehcile, Generic Components
CAN	TPT1145Q-SO2R-S	Preview	SOP14	CAN FD, 70V, Silent, Selective Wake Up/Wake-up Frame	TJA1145, TCAN1145	CAN Network in Vehcile, Generic Components
CAN	TPT1462VQ-DFCR-S	Preview	DFN3X3-8	CAN SIC up to 8Mbps, 42V BUS, Standby, Pin5=VIO	TJA1462, TCAN1462	CAN Network in Vehcile, Generic Components
CAN	TPT1462VQ-SO1R-S	Preview	SOP8	CAN SIC up to 8Mbps, 42V BUS, Standby, Pin5=VIO	TJA1462, TCAN1462	CAN Network in Vehcile, Generic Components
CAN	TST1042VQ-SO1R-S	Production	SOP8	CAN FD, 70V, Standby	TJA1042, TCAN1042	Generic Components
LIN	TPT1021Q-DFCR-S	Production	DFN3X3-8	40V LIN BUS, 1 CH	TJA1021	LIN Network in Vehcile, Generic Components
LIN	TPT1021Q-SO1R-S	Production	SOP8	40V LIN BUS, 1 CH	TJA1021	LIN Network in Vehcile, Generic Components
LIN	TPT1022Q-DFKR-S	Preview	DFN4.5X3-14	40V LIN BUS, 2 CH	TJA1022	LIN Network in Vehcile, Generic Components
LIN	TPT1022Q-SO2R-S	Sample	SOP14	40V LIN BUS, 2 CH	TJA1022	LIN Network in Vehcile, Generic Components
LIN	TPT1024Q-QFXR-S	Sample	QFN5.5X3.5-24	40V LIN BUS, 4 CH	TJA1024	LIN Network in Vehcile, Generic Components
LIN	TPT1029Q-DFCR-S	Sample	DFN3X3-8	LIN Transceiver, 40V BUS without INH, WAKE pin, Wetttable Flank	TJA1029	LIN Network in Vehcile, Generic Components
LIN	TPT1029Q-SO1R-S	Sample	SOP8	LIN Transceiver, 40V BUS without INH, WAKE pin	TJA1029	LIN Network in Vehcile, Generic Components

Automotive Products List

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Category	Part Number	Status	Package	Description	Compatible P/N	Application
Interface						
SBC	TPT10283Q-SO1R-S	Sample	SOP8	3.3V, 125mA, LIN SBC	TJA1028	LIN Network in Vehcile, Generic Components
SBC	TPT10285Q-DFCR-S	Sample	DFN3X3-8	5V, 125mA, LIN SBC	TJA1028	LIN Network in Vehcile, Generic Components
SBC	TPT10285Q-SO1R-S	Sample	SOP8	5V, 125mA, LIN SBC	TJA1028	LIN Network in Vehcile, Generic Components
IO Expander	TPT29539Q-TS5R-S	Production	TSSOP24	Automotive I2C to 16 bit GPIO Expander with Interrupt and Reset	TCA9539Q	Generic Components
LDO & Voltage Reference						
High-voltage LDO	TPL803133Q-DF6R-S	Production	DFN3X3-8	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High-voltage LDO	TPL803133Q-EV1R-S	Production	EMSOP8	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High-voltage LDO	TPL803133Q-ST4R-S	Preview	SOT223-3	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High-voltage LDO	TPL803150Q-DF6R-S	Production	DFN3X3-8	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High-voltage LDO	TPL803150Q-EV1R-S	Production	EMSOP8	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High-voltage LDO	TPL803150Q-ST4R-S	Preview	SOT223-3	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High-voltage LDO	TPL803150Q-T52R-S	Sample	TO252-3	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High-voltage LDO	TPL8032ADQ-ES1R-S	Production	ESOP8	20V/300mA, 79dB PSRR, 5.68uVrms Ultra-low noise LDO	TLS203	Generic Components
High-voltage LDO	TPL803433Q-EV1R-S	Preview	EMSOP8	High Voltage Sense and Low IQ Supervisory with Programmable Delay	TPS7A66-Q1	Generic Components
High-voltage LDO	TPL803450Q-EV1R-S	Preview	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	Preview	DFN3X3-8	42V/300mA, 3uA Low Quiescent Current, Low Dropout Linear Regulator	MP2013	Generic Components
High-voltage LDO	TPL803533Q-EV1R-S	Preview	EMSOP8	42V/300mA, 3uA Low Quiescent Current, Low Dropout Linear Regulator	TPS7B82	Generic Components
High-voltage LDO	TPL803550Q-DF6R-S	Preview	DFN3X3-8	42V/300mA, 3uA Low Quiescent Current, Low Dropout Linear Regulator	MP2013	Generic Components
High-voltage LDO	TPL803550Q-EV1R-S	Preview	EMSOP8	42V/300mA, 3uA Low Quiescent Current, Low Dropout Linear Regulator	TPS7B82	Generic Components
High-voltage LDO	TPL8051ADQ-DFCR-S	Preview	DFN3X3-8	42V/500mA Wide Input Voltage Range, 3uA low Iq LDO with PG and delay	TPS7B86/7/8-Q1	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	Preview	ETSSOP16	42V, 300mA Wide-input Low Quiescent Current LDO with Watchdog Timer	TPS7B63xx-Q1, TPS7A63xx-Q1	Generic Components
High-voltage LDO	TPL853650Q-TSBR-S	Preview	ETSSOP16	42V/300mA LDO with Watchdog and Reset for Automotive	TPS7B63xx-Q1, TPS7A63xx-Q1	Generic Components
High-voltage LDO	TPL855633Q-TSCR-S	Preview	ETSSOP28	42V, 300mA Wide-input Low Quiescent Current LDO with Watchdog Timer	TPS7B68xx-Q1	Generic Components
High-voltage LDO	TPL855650Q-TSCR-S	Preview	ETSSOP28	42V/500mA LDO with Watchdog and Reset for Automotive	TPS7B68xx-Q1	Generic Components
High-voltage LDO	TPL8601Q-ES1R-S	Sample	ESOP8	42V/150mA Voltage Tracking LDO with Output Feedback	TPS7B4254-Q1, TLE4254	Generic Components
High-voltage LDO	TPL8602FQ-ES1R-S	Sample	ESOP8	42V/250mA Voltage Tracking LDO with Output Feedback	TPS7B4253-Q1, TLE4253	Generic Components
High-voltage LDO	TPL8771Q-TSBR-S	Sample	ETSSOP16	42V/300mA, 1 CH, LDO with Accurate Current Sense and Protection	TPS7B7701	Antenna
High-voltage LDO	TPL8772Q-TSBR-S	Preview	ETSSOP16	42V/300mA, 2 CH, LDO with Accurate Current Sense and Protection	TPS7B7702	Antenna
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

Automotive Products List

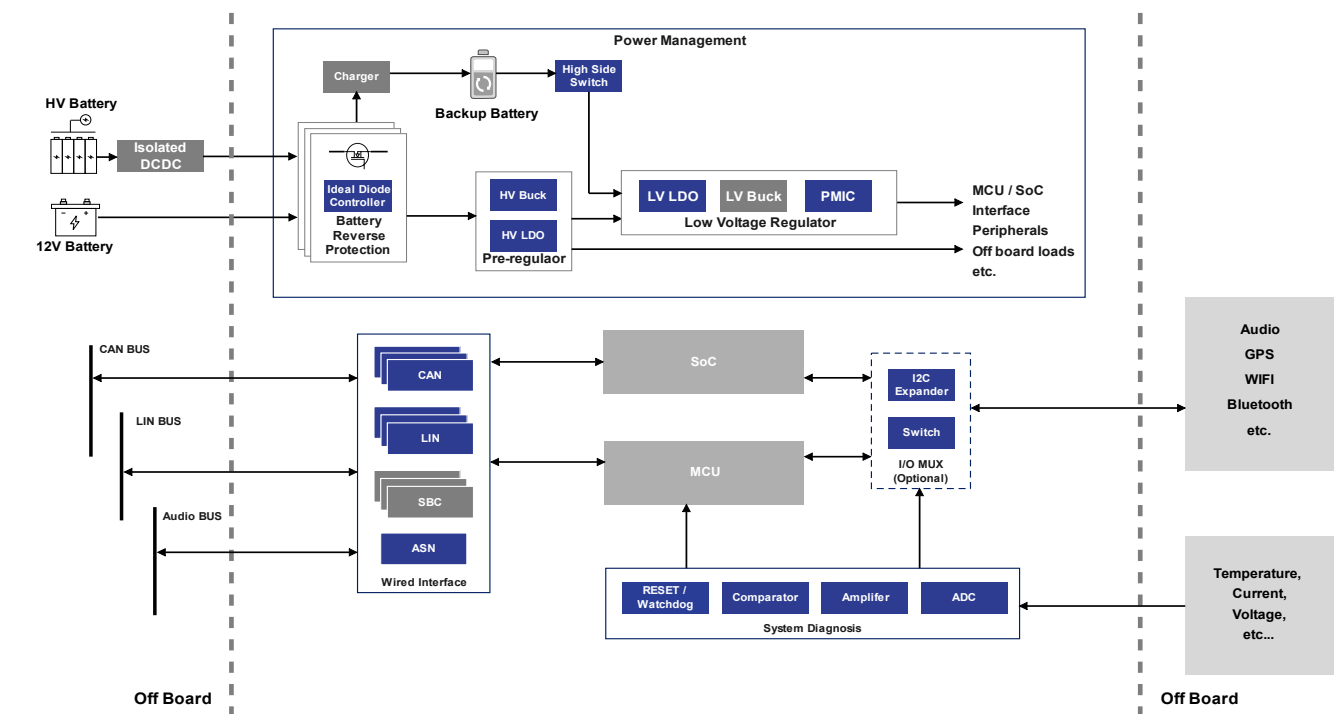
Status as of 1 October, 2024

Category	Part Number	Status	Package	Description	Compatible P/N	Application
LDO & Voltage Reference						
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 Series Voltage 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-3STR-S	Preview	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
Power Switches						
eFuses	TPS60C01Q-QFZR-S	Sample	QFN5X5-32	High-side eFuse Controller	VNF1048	BCM
Ideal Diode Controller	TPS65R01Q-S6TR-S	Preview	SOT23-6	65V Ideal Diode Controller	LM74700	Generic Components
High-side Switches	TPS42Q20AQ-TSCR-S	Sample	ETSSOP28	4 CH, 42V/100mohm Smart High-side Switch with Status Indication	TPS4H160A-Q1	BCM
High-side Switches	TPS42Q20BQ-TSCR-S	Sample	ETSSOP28	4 CH, 42V/100mohm Smart High-side Switch with Current Sense	TPS4H160B-Q1	BCM
High-side Switches	TPS42S40AQ-TSAR-S	Preview	ETSSOP14	42V/4A Smart High-side Switch with Status Indication	TPS1H100A-Q1	BCM
High-side Switches	TPS42S40BQ-TSAR-S	Preview	ETSSOP14	42V/4A Smart High-side Switch with Current Sense	TPS1H100B-Q1	BCM
Supervisors						
Reset ICs	TPV8368SAQ-S6TR-S	Production	SOT23-6	Ultra Fast Delay Time, Nano Power Supervisory with Programmable Delay Time	R3121N030E-TR-KE	Generic Components
Reset ICs	TPV8368SZQ-S5TR-S	Preview	SOT23-5	Ultra Fast Delay Time, Nano Power Supervisory with Programmable Delay Time	R3121N030E-TR-KE	Generic Components
Reset ICs with Watchdog	TPV710NWQ-S5TR-S	Production	SOT23-5	Auto grade watchdog with enable control	STWD100	Generic Components
Reset ICs with Watchdog	TPV710NYQ-S5TR-S	Production	SOT23-5	Auto grade watchdog with enable control	STWD100	Generic Components
Reset ICs with Watchdog	TPV710NZQ-S5TR-S	Production	SOT23-5	Auto grade watchdog with enable control	STWD100	Generic Components

Automotive Applications Solutions

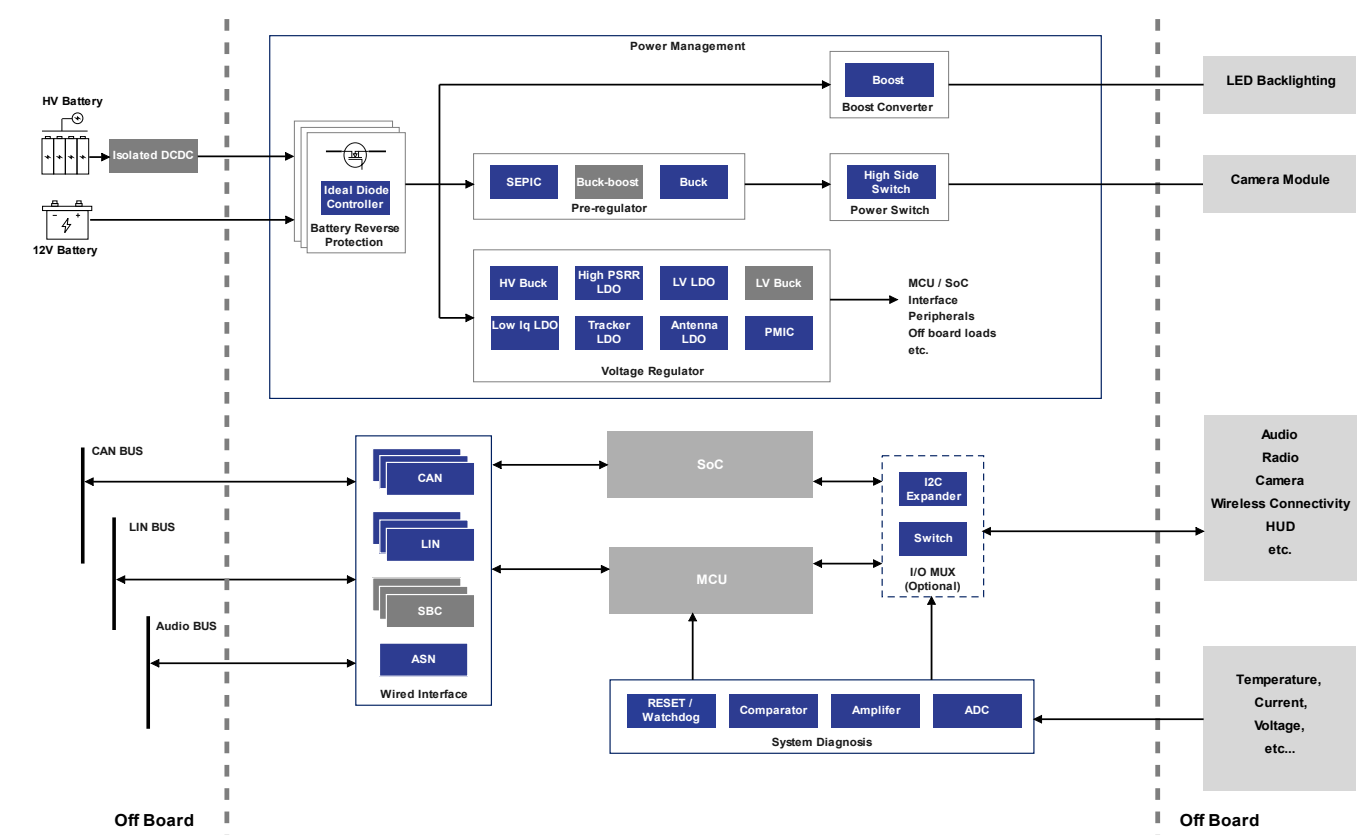
T-Box

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.



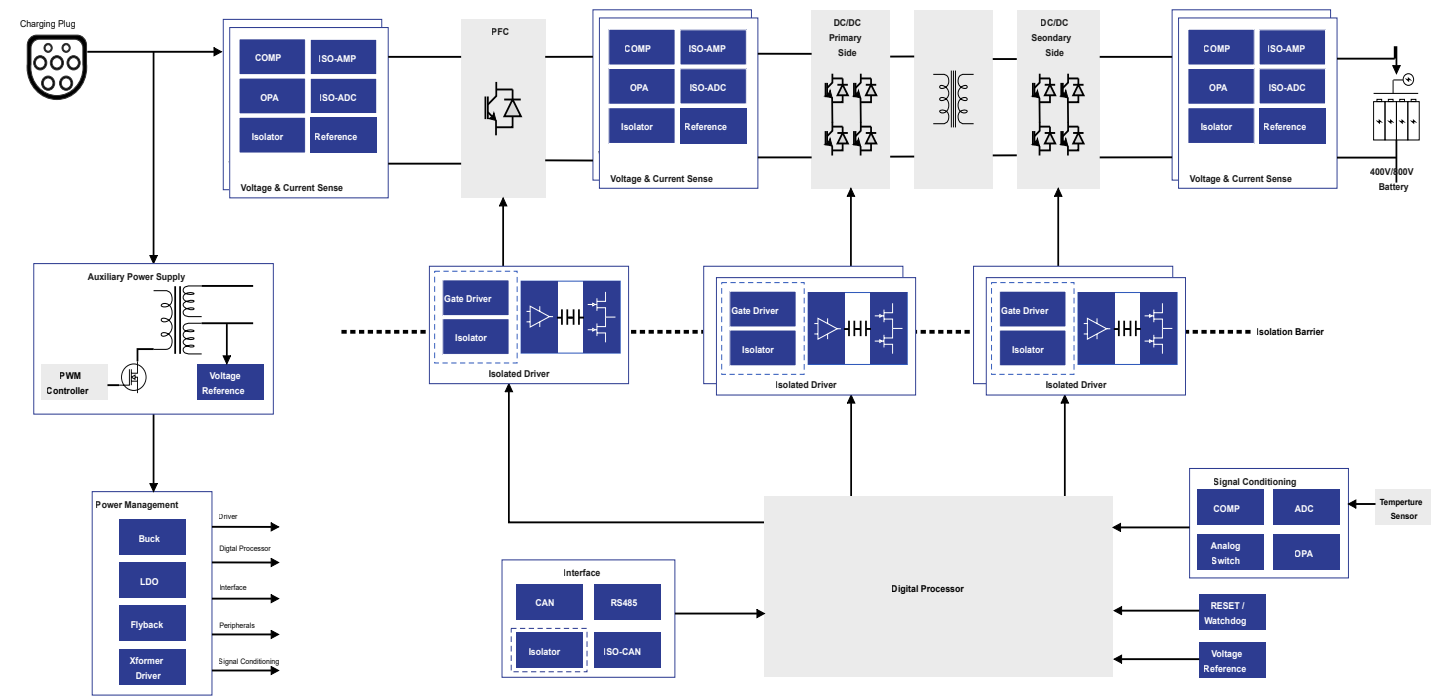
Infotainment

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.



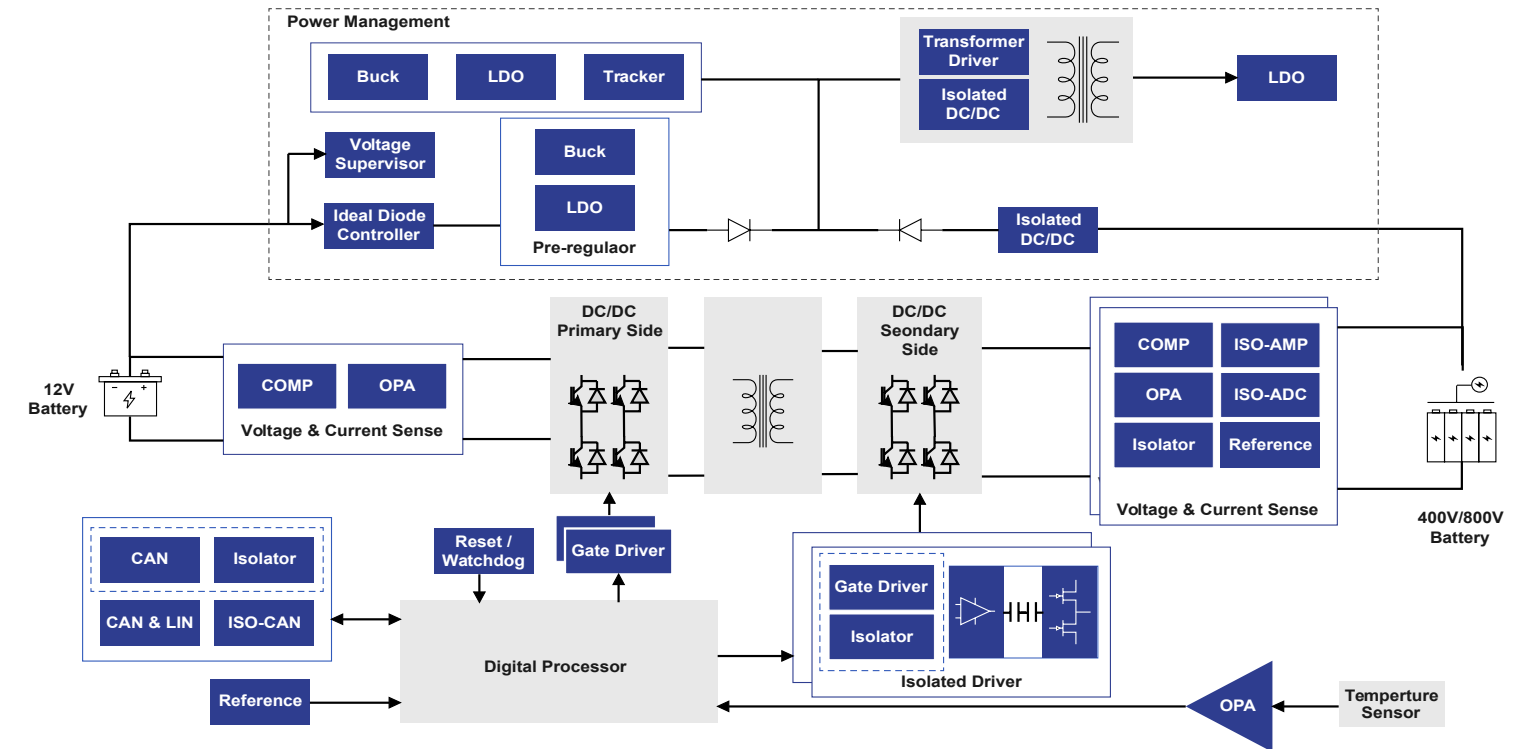
On-board Charger (OBC)

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.

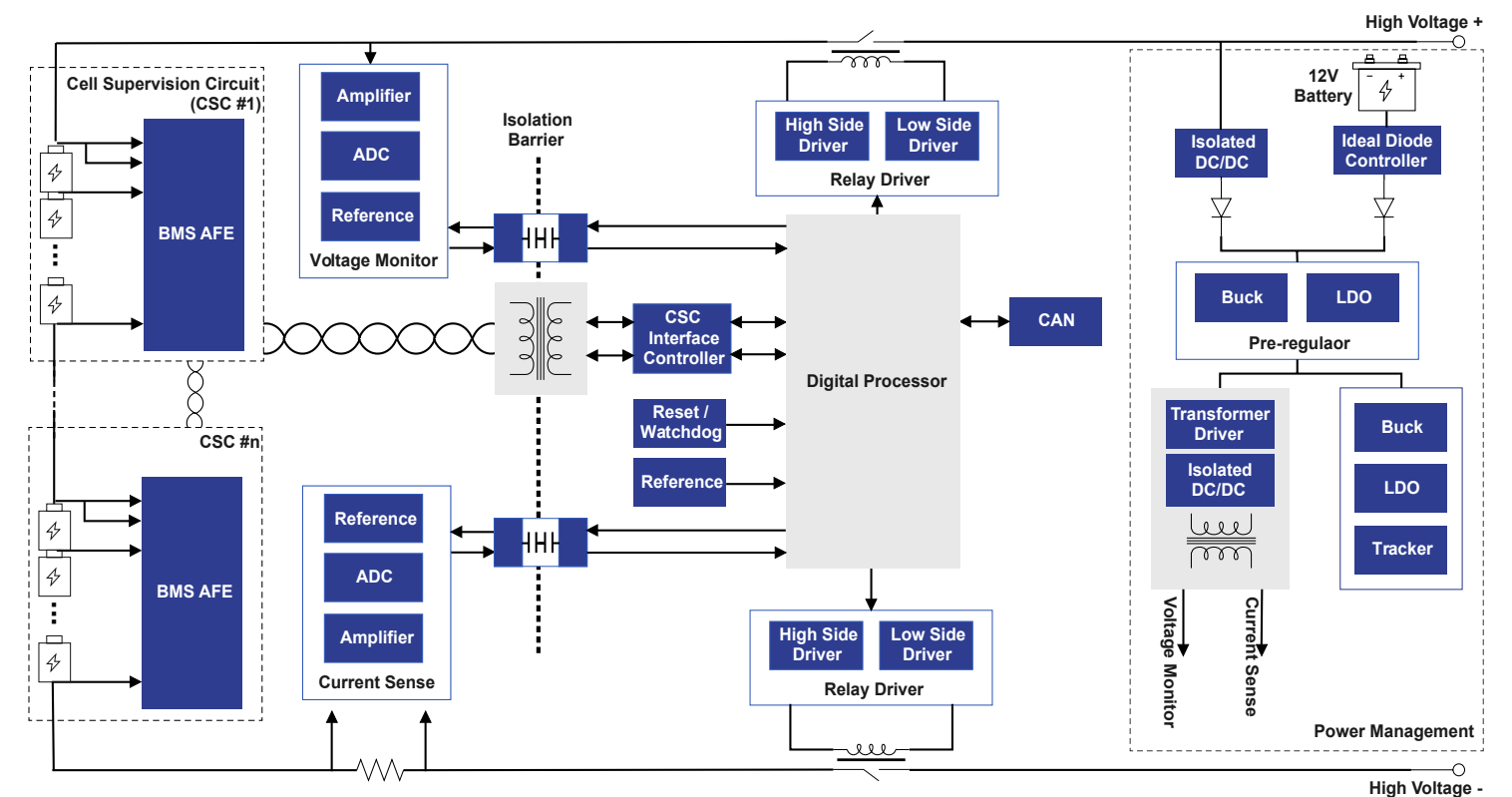
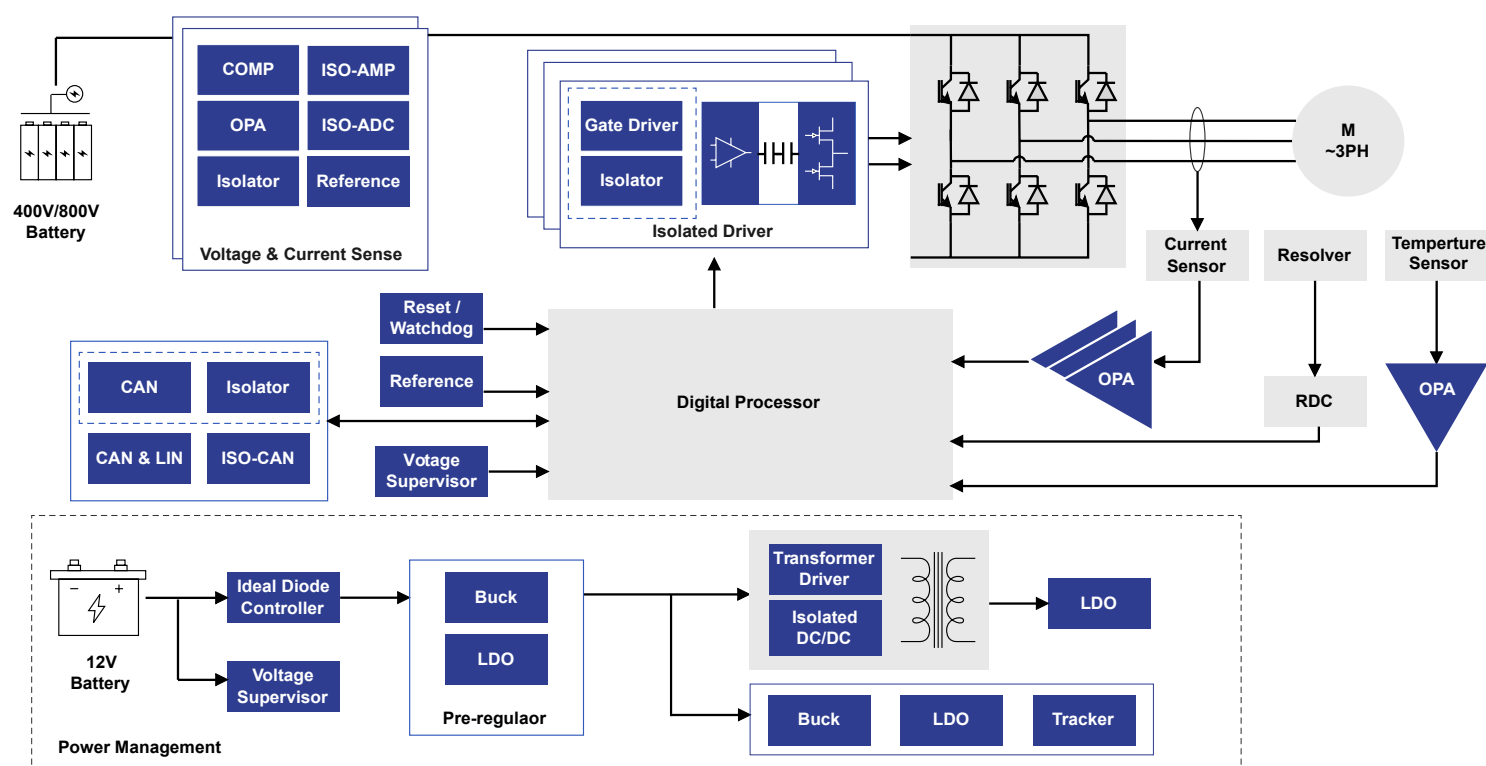


Traction Inverter

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.

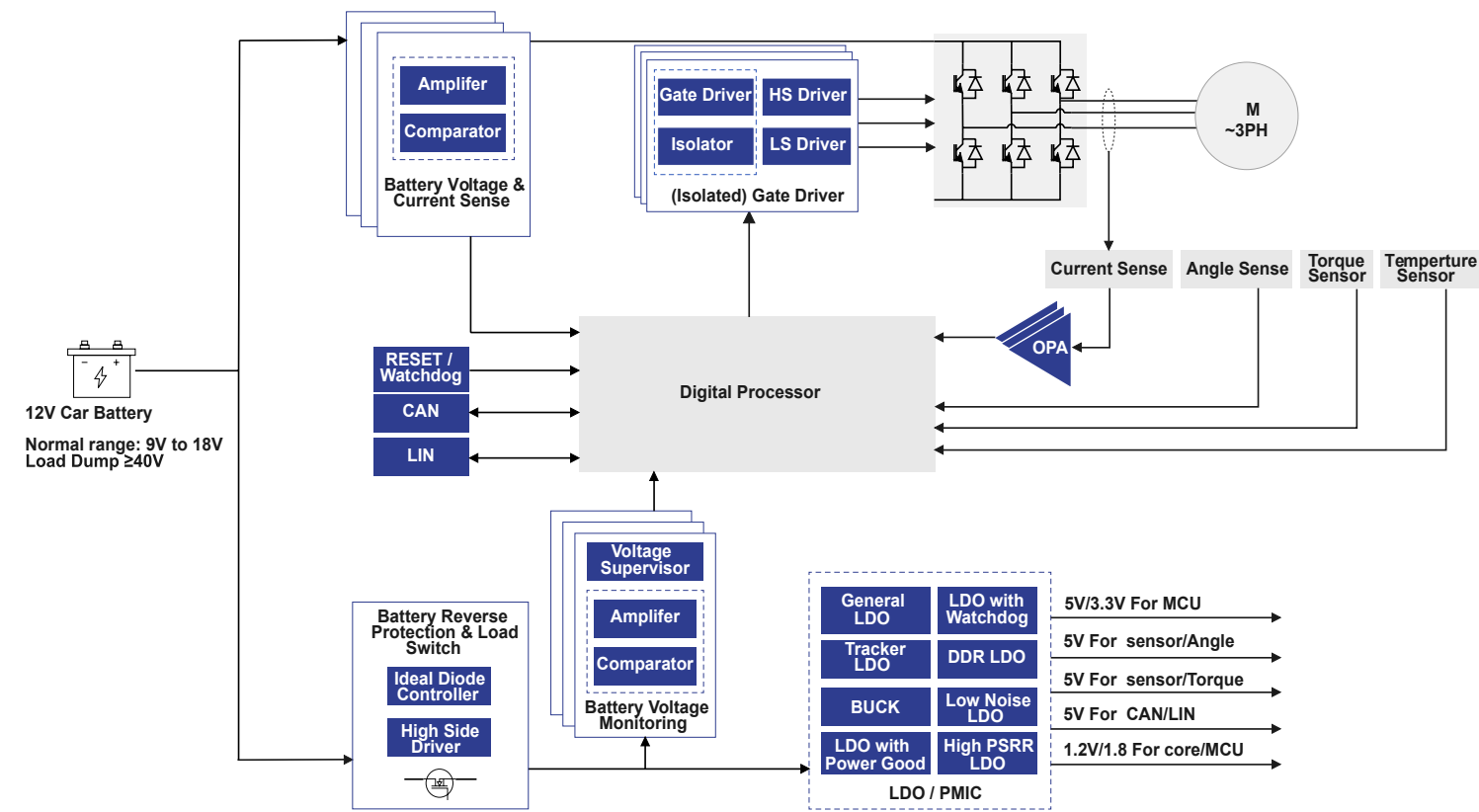
Automotive BMS

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.



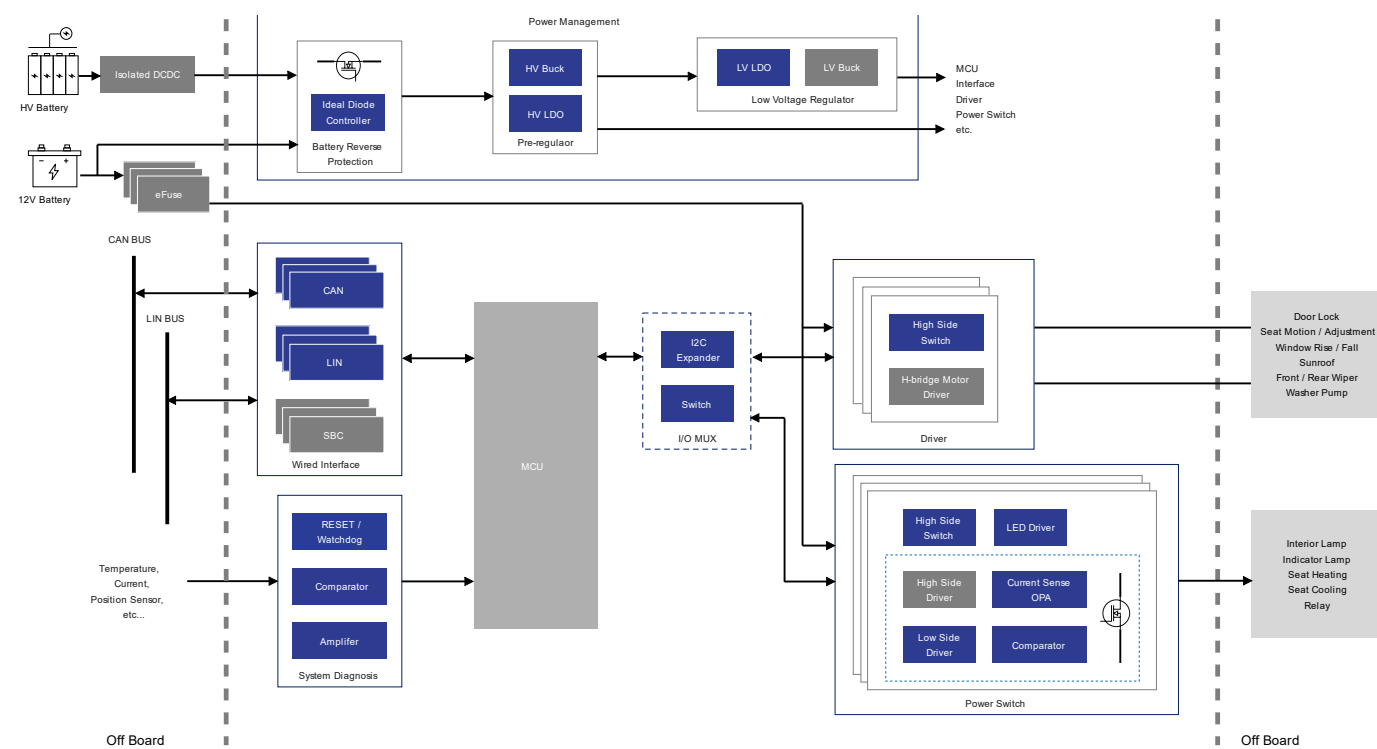
Electric Power Steering (EPS)

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.



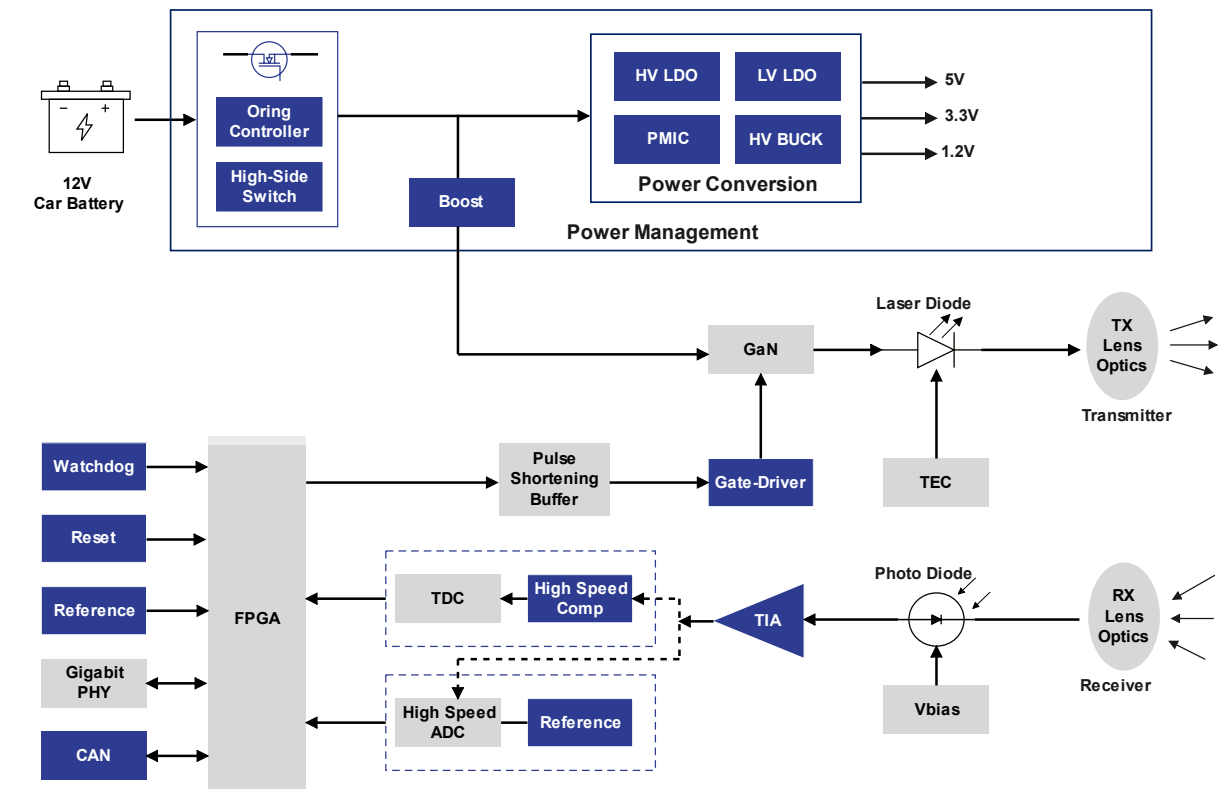
Body Domain Controller

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.



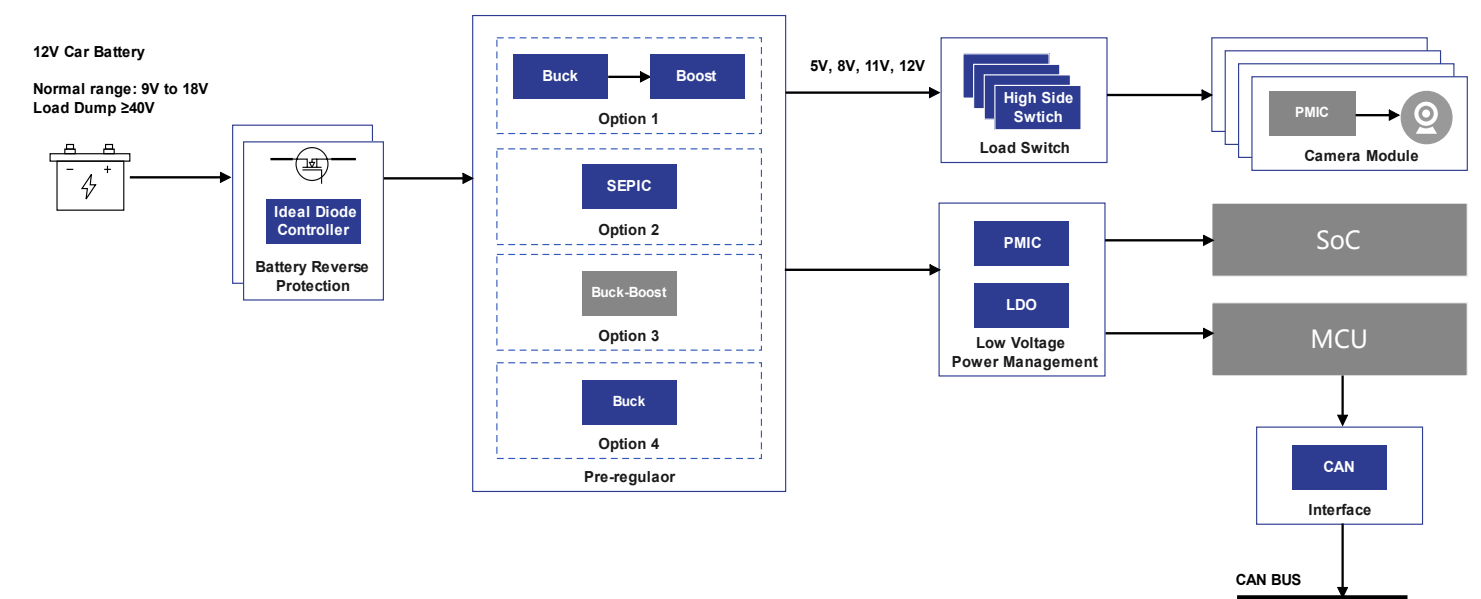
LiDAR

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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