



AUTOMOTIVE ANALOG PRODUCTS

Signal Chain Products

Analog
Switch

Comparators

Data
Converter

Interface

Operational
Amplifier

Power Management Products

DCDC

Drivers

LDO

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, mixed-signal front-ends, and embedded processors 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	5700+ Customers	20+ Countries	10B+ Chips Shipped

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

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.



BCMS
ISO 22301

3.Supply

- a. Our top tier suppliers are located in all major regions and have been 3PEAK partners for over 10 years.



QMS
ISO 9001

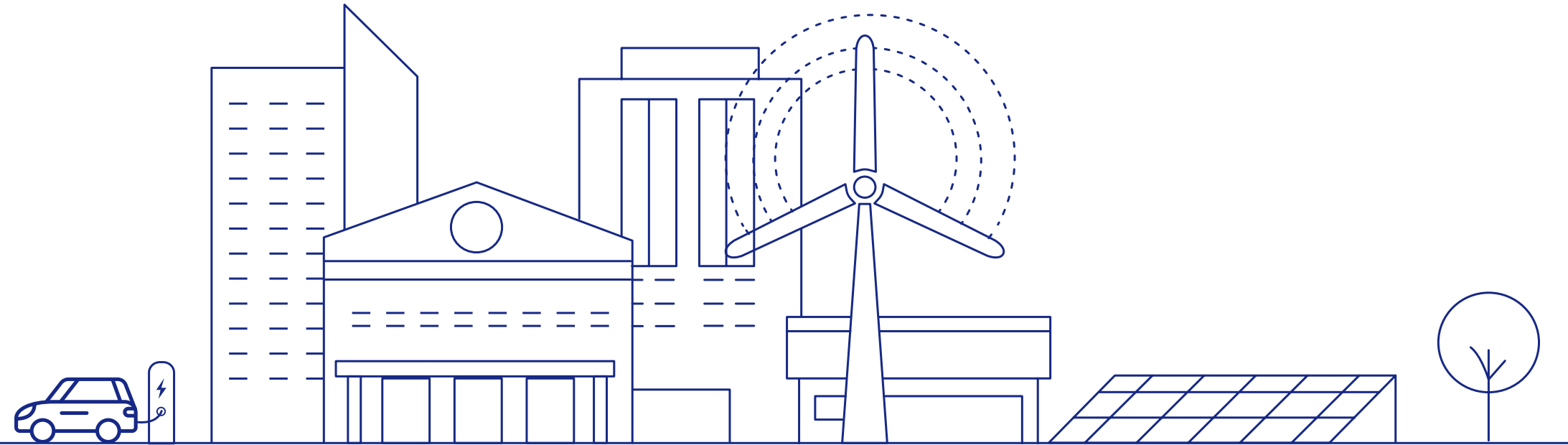


3PEAK Automotive-Grade Test Center



CNAS
ISO 17025

3PEAK Products in Automotive



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	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
DC-DC	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
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	✓					✓	✓	✓	✓		✓	✓	✓	✓	✓

Automotive Products List

Status as of 20 Feb, 2024

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Analog Switch						
Low-Voltage Switch	TPW3188Q-TS3R-S	Production	TSSOP16	5V Analog Switch, 500 MHz, 8:1, 1CH	TMUX1308	Generic Components, Body Domain Control Modules
Comparators						
Comparators	LM2903DQ-SO1R-S	Production	SOP8	36V, General Comparator, BJT Input, No Input and Output Diode to Vcc	LM2903	Generic Components, xEV
Comparators	TPA2031Q-S5TR-S	Production	SOT23-5	5V, 100ns Comparator	TS3021	Generic Components, LiDAR
Comparators	TS2903Q-SO1R-S	Production	SOP8	36V, General Comparator, BJT Input, No Input and Output Diode to Vcc	LM2903	Generic Components
Data Converter						
Precision ADC	TPC5120Q-TS7R-S	Production	TSSOP38	12bit, 1MSPS, 16CH ADC	ADS7953-Q1	BMS, Infotainment
Precision ADC	TPC5121Q-TS8R-S	Sample	TSSOP30	12bit, 1MSPS, 8CH ADC	/	BMS, Infotainment
DCDC						
Boost	TPQ50551Q-DFTR-S	Sample	DFN3X2-12	2.2MHz Wide Input Nonsynchronous Boost/SEPIC/Flyback Converter	LM5155-Q1	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charging, Lighting System
Boost	TPQ5055Q-DFTR-S	Sample	DFN3X2-12	2.2MHz Wide Input Nonsynchronous Boost/SEPIC/Flyback Converter	LM5155-Q1	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charging, Lighting System
Boost	TPQ50571Q-QFNR-S	Sample	QFN3X3-16	40V, 5A Non-Sync Boost	TPS55340-Q, LM51571-Q	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station, Wireless Charging, Lighting System
Drivers						
LED Drivers	TPM92611Q-EV1R-S	Sample	EMSOP8	40V, 450mA Linear LED Driver with Diagnostics	/	Lighting System
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	2CH, 5V, 7A, GaN Driver	LMG1025-Q1	LiDAR
Non-isolated Gate Drivers	TPM27524Q-DF4R-S	Production	DFN2X2-8	2CH, 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	2CH, 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	2CH, 25V, 5A, Lowside Gate Driver	UCC27524A-Q1	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station
Transformer 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
Transformer 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
Transformer 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	TPT1042Q-DF6R-S	Production	DFN3X3-8	CAN FD 5Mbps, 70V BUS, Standby Mode	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1042Q-SO1R-S	Production	SOP8	CAN FD 5Mbps, 70V BUS, Standby Mode	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1042VQ-DF6R-S	Production	DFN3X3-8	CAN FD 5Mbps, 70V BUS, Standby Mode, VIO	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1042VQ-SO1R-S	Production	SOP8	CAN FD 5Mbps, 70V BUS, Standby Mode, VIO	TJA1042, TCAN1042	CAN Network in Vehcile, Generic Components
CAN	TPT1051Q-DF6R-S	Production	DFN3X3-8	CAN FD 5Mbps, 70V BUS, Silent Mode	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1051Q-SO1R-S	Production	SOP8	CAN FD 5Mbps, 70V BUS, Silent Mode	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1051VQ-DF6R-S	Production	DFN3X3-8	CAN FD 5Mbps, 70V BUS, Silent Mode, VIO	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1051VQ-SO1R-S	Production	SOP8	CAN FD 5Mbps, 70V BUS, Silent Mode, VIO	TJA1051, TCAN1051	CAN Network in Vehcile, Generic Components
CAN	TPT1043Q-DFKR-S	Production	DFN3X3-8	CAN FD 5Mbps, 70V BUS, Sleep Mode with Local and Remote Wake up	TJA1043, TCAN1043	CAN Network in Vehcile, Generic Components
CAN	TPT1043Q-SO2R-S	Production	SOP14	CAN FD 5Mbps, 70V BUS, Sleep Mode with Local and Remote Wake up	TJA1043, TCAN1043	CAN Network in Vehcile, Generic Components

Automotive Products List

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Category	Part Number	Status	Package	Description	Compatible P/N	Application
Interface						
CAN	TPT1145NQ-DFKR-S	Production	DFN4.5X3-14	CAN FD 5Mbps, 70V BUS, Sleep Mode with Selective Wake Up/Wake-Up Frame, Partial Networking	TJA1145, TCAN1145	CAN Network in Vehcile, Generic Components
CAN	TPT1145NQ-SO2R-S	Production	SOP14	CAN FD 5Mbps, 70V BUS, Sleep Mode with Selective Wake Up/Wake-Up Frame, Partial Networking	TJA1145, TCAN1145	CAN Network in Vehcile, Generic Components
CAN	TPT1044Q-DFCR-S	Preview	DFN3X3-8	CAN FD 5Mbps, 45V BUS, Standby Mode, EMC Enhanced	TJA1044, TCAN1044	CAN Network in Vehcile, Generic Components
CAN	TPT1044Q-SO1R-S	Preview	SOP8	CAN FD 5Mbps, 45V BUS, Standby Mode, EMC Enhanced	TJA1044, TCAN1044	CAN Network in Vehcile, Generic Components
CAN	TPT1044VQ-DFCR-S	Preview	DFN3X3-8	CAN FD 5Mbps, 45V BUS, Standby Mode, VIO, EMC Enhanced	TJA1044, TCAN1044	CAN Network in Vehcile, Generic Components
CAN	TPT1044VQ-SO1R-S	Preview	SOP8	CAN FD 5Mbps, 45V BUS, Standby Mode, VIO, EMC Enhanced	TJA1044, TCAN1044	CAN Network in Vehcile, Generic Components
CAN	TPT1057Q-DFCR-S	Preview	DFN3X3-8	CAN FD 5Mbps, 45V BUS, Silent Mode, EMC Enhanced	TJA1057, TCAN1057	CAN Network in Vehcile, Generic Components
CAN	TPT1057Q-SO1R-S	Preview	SOP8	CAN FD 5Mbps, 45V BUS, Silent Mode, EMC Enhanced	TJA1057, TCAN1057	CAN Network in Vehcile, Generic Components
CAN	TPT1057VQ-DFCR-S	Preview	DFN3X3-8	CAN FD 5Mbps, 45V BUS, Silent Mode, VIO, EMC Enhanced	TJA1057, TCAN1057	CAN Network in Vehcile, Generic Components
CAN	TPT1057VQ-SO1R-S	Preview	SOP8	CAN FD 5Mbps, 45V BUS, Silent Mode, VIO, EMC Enhanced	TJA1057, TCAN1057	CAN Network in Vehcile, Generic Components
CAN	TPT1462Q-DFCR-S	Preview	DFN3X3-8	CAN SIC 8Mbps, 45V BUS, Standby Mode, EMC Enhanced	TJA1462, TCAN1462	CAN Network in Vehcile, Generic Components
CAN	TPT1462Q-SO1R-S	Preview	SOP8	CAN SIC 8Mbps, 45V BUS, Standby Mode, EMC Enhanced	TJA1462, TCAN1462	CAN Network in Vehcile, Generic Components
CAN	TPT1462VQ-DFCR-S	Preview	DFN3X3-8	CAN SIC 8Mbps, 45V BUS, Standby Mode, EMC Enhanced	TJA1462, TCAN1462	CAN Network in Vehcile, Generic Components
CAN	TPT1462VQ-SO1R-S	Preview	SOP8	CAN SIC 8Mbps, 45V BUS, Standby Mode, EMC Enhanced	TJA1462, TCAN1462	CAN Network in Vehcile, Generic Components
LIN	TPT1021Q-DFCR-S	Production	DFN3X3-8	Automotive Fault Protected LIN Transceiver with Wake and INH	TJA1021, TLIN1021	LIN Network in Vehcile, Generic Components
LIN	TPT1021Q-SO1R-S	Production	SOP8	Automotive Fault Protected LIN Transceiver with Wake and INH	TJA1021, TLIN1021	LIN Network in Vehcile, Generic Components
LIN	TPT1022Q-DFKR-S	Preview	DFN4.5X3-14	Automotive Dual Channel LIN Transceiver	TJA1022, TLIN1022	LIN Network in Vehcile, Generic Components
LIN	TPT1022Q-SO2R-S	Preview	SOP14	Automotive Dual Channel LIN Transceiver	TJA1022, TLIN1022	LIN Network in Vehcile, Generic Components
LIN	TPT1024Q-QFXR-S	Preview	QFN5.5X3.5-24	Automotive Quad channel LIN Transceiver	TJA1024, TLIN1024	LIN Network in Vehcile, Generic Components
LIN	TPT1029Q-DFCR-S	Preview	DFN3X3-8	Automotive Fault Protected LIN Transceiver	TJA1029, TLIN1029	LIN Network in Vehcile, Generic Components
LIN	TPT1029Q-SO1R-S	Preview	SOP8	Automotive Fault Protected LIN Transceiver	TJA1029, TLIN1029	LIN Network in Vehcile, Generic Components
SBC	TPT10283Q-DFCR-S	Preview	DFN3X3-8	Automotive LIN SBC with 3.3V 125mA LDO	TJA1028, TLIN1028	LIN Based SBC, Generic Components
SBC	TPT10283Q-SO1R-S	Preview	SOP8	Automotive LIN SBC with 3.3V 125mA LDO	TJA1028, TLIN1028	LIN Based SBC, Generic Components
SBC	TPT10285Q-DFCR-S	Preview	DFN3X3-8	Automotive LIN SBC with 5V 125mA LDO	TJA1028, TLIN1028	LIN Based SBC, Generic Components
SBC	TPT10285Q-SO1R-S	Preview	SOP8	Automotive LIN SBC with 5V 125mA LDO	TJA1028, TLIN1028	LIN Based SBC, Generic Components
IO Expander	TPT29539Q-TS5R-S	Preview	TSSOP24	Automotive I2C to 16-bit GPIO Expander with Interrupt and Reset	TCA9539Q	Generic Components
LDO						
Low Voltage LDO	TPL910ADJQ-DF6R-S	Production	DFN3X3-8	5.5V/1A, 78dB PSRR, 4.9 uVrms Ultra-Low Noise, Adjustable Output-Voltage LDO	TPS7A8101-Q1, RTQ2510, MPQ25001, NCV59800	Generic Components
High Voltage LDO	TPL803133Q-DF6R-S	Preview	DFN3X3-8	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High Voltage LDO	TPL803133Q-EV1R-S	Preview	EMSOP8	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High Voltage LDO	TPL803133Q-ST4R-S	Sample	SOT223-3	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High Voltage LDO	TPL803150Q-DF6R-S	Preview	DFN3X3-8	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High Voltage LDO	TPL803150Q-EV1R-S	Preview	EMSOP8	42V/300mA Wide Input Voltage Range, 3uA Ultralow Iq LDO	RTQ2569, TPS7B82-Q1	Generic Components
High Voltage LDO	TPL803150Q-ST4R-S	Sample	SOT223-3	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

Automotive Products List

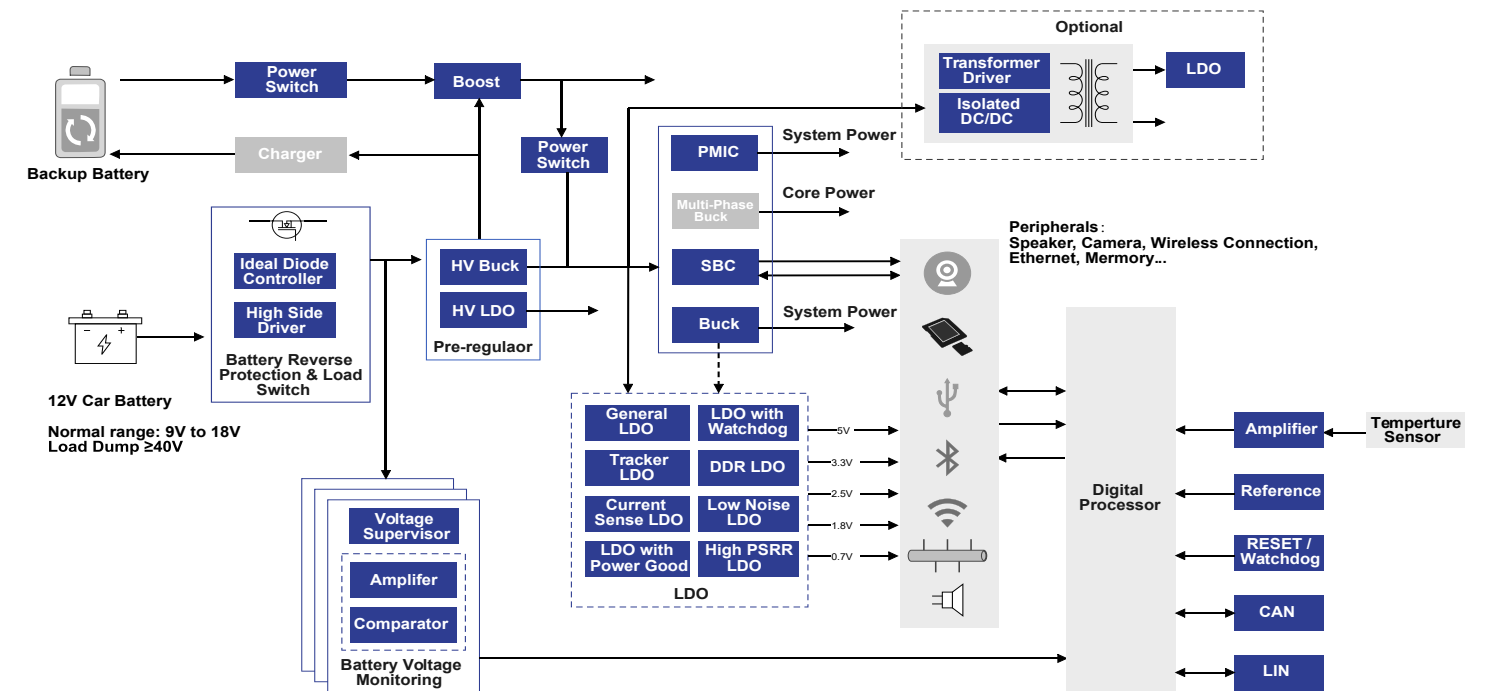
Status as of 20 Feb, 2024

Category	Part Number	Status	Package	Description	Compatible P/N	Application
LDO						
High Voltage LDO	TPL803433Q-EV1R-S	Sample	EMSOP8	High Voltage Sense and Low IQ Supervisory with Programmable Delay	TPS7A66-Q1	Generic Components
High Voltage LDO	TPL803450Q-EV1R-S	Sample	EMSOP8	42V/300mA Wide Input Voltage Range, 3uA Low Iq LDO with PG and Delay	TPS7A66-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	Sample	ETSSOP16	42-V 300-mA Wide-Input Low Quiescent Current LDO with Watchdog Timer	TPS7B63xx-Q1, TPS7A63xx-Q1	Generic Components
High Voltage LDO	TPL853650Q-TSBR-S	Sample	ETSSOP16	42V/300mA LDO with Watchdog and Reset for Automotive	TPS7B63xx-Q1, TPS7A63xx-Q1	Generic Components
High Voltage LDO	TPL855633Q-TSCR-S	Sample	ETSSOP28	42-V 300-mA Wide-Input Low Quiescent Current LDO with Watchdog Timer	TPS7B68xx-Q1	Generic Components
High Voltage LDO	TPL855650Q-TSCR-S	Sample	ETSSOP28	42V/500mA LDO with Watchdog and Reset for Automotive	TPS7B68xx-Q1	Generic Components
High Voltage LDO	TPL8651Q-ES1R-S	Sample	ESOP8	42V/150mA Voltage Tracking LDO with Output Feedback	TPS7B4254-Q1, TLE4254	Generic Components
High Voltage LDO	TPL8652FQ-ES1R-S	Sample	ESOP8	42V/250mA Voltage Tracking LDO with Output Feedback	TPS7B4253-Q1, TLE4253	Generic Components
Operational Amplifier						
High-Voltage Operational Amplifier	TP28Q-VS1R-S	Production	MSOP8	36V, 12MHz, 50uV Amplifier	OPA2197	Generic Components, xEV
High-Voltage Operational Amplifier	TPA1861Q-S5TR-S	Preview	SOT23-5	36V, 6MHz, 80uV Amplifier	OPA197	Generic Components, xEV
High-Voltage Operational Amplifier	TPA1862Q-SO1R-S	Preview	SOP8	36V, 6MHz, 80uV Amplifier	OPA2197	Generic Components, xEV
High-Voltage Operational Amplifier	TPA1881Q-S5TR-S	Preview	SOT23-5	36V, 12MHz, 50uV Amplifier	OPA197	Generic Components, xEV
High-Voltage Operational Amplifier	TPA1882Q-SO1R-S	Preview	SOP8	36V, 12MHz, 50uV Amplifier	OPA2197	Generic Components, xEV
High-Voltage Operational Amplifier	TPA1882Q-VR-S	Production	MSOP8	36V, 12MHz, 50uV Vos, Zero-Drift Amplifier	OPA2197	Generic Components, xEV
Zero-Drift Operational Amplifier	TPA5561Q-S5TR-S	Production	SOT23-5	5V, 3.5MHz, 50uV Vos, High Precision Amplifier	TSZ181, OPA335	Generic Components, xEV
Zero-Drift Operational Amplifier	TPA5562Q-SO1R-S	Preview	SOP8	5V, Zero-Drift Operational Amplifier	TSZ181	Generic Components
Zero-Drift Operational Amplifier	TPA5562Q-VS1R-S	Preview	MSOP8	5V, Zero-Drift Operational Amplifier	TSZ181	Generic Components
Zero-Drift Operational Amplifier	TPA5571NQ-S6TR-S	Preview	SOT23-6	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Zero-Drift Operational Amplifier	TPA5571Q-S5TR-S	Sample	SOT23-5	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Zero-Drift Operational Amplifier	TPA5572Q-SO1R-S	Preview	SOP8	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Zero-Drift Operational Amplifier	TPA5572Q-VS1R-S	Preview	MSOP8	5V, 15MHz, 500uV Amplifier	TLV900xQ, TLV906xQ	Generic Components
Power Switch						
Power Switch	TPS42S40AQ-TSAR-S	Sample	ETSSOP14	42V 4A 100mΩ 1CH High Side Switch with Current Sense	TPS1H100-Q1	BCM
Power Switch	TPS42S40BQ-TSAR-S	Sample	ETSSOP14	42V 4A 100mΩ 1CH High Side Switch with Current Sense	TPS1H100-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 with Watchdog	TPV710NZQ-S5TR-S	Preview	SOT23-5	Auto Grade Watchdog with EN	/	Generic Components

Automotive Application Solutions

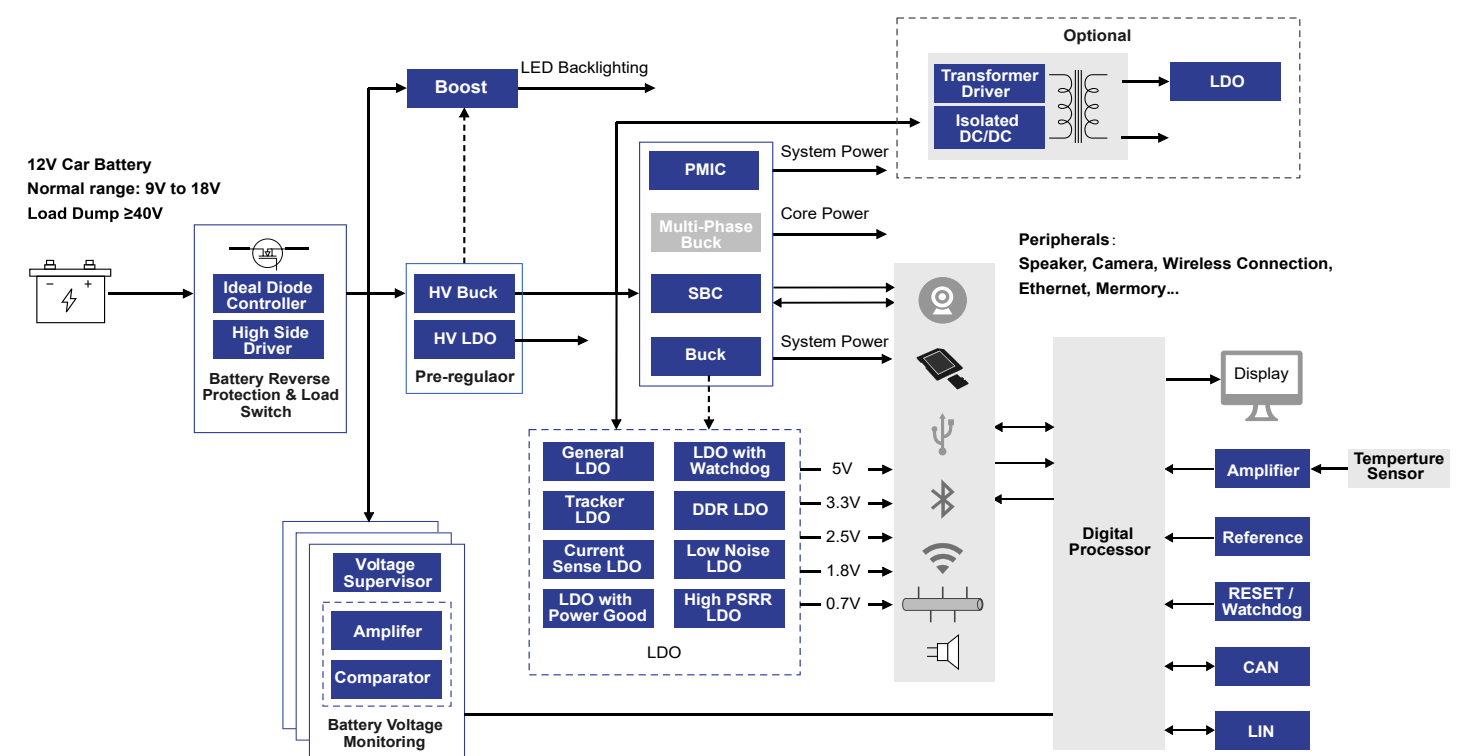
T-Box

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.



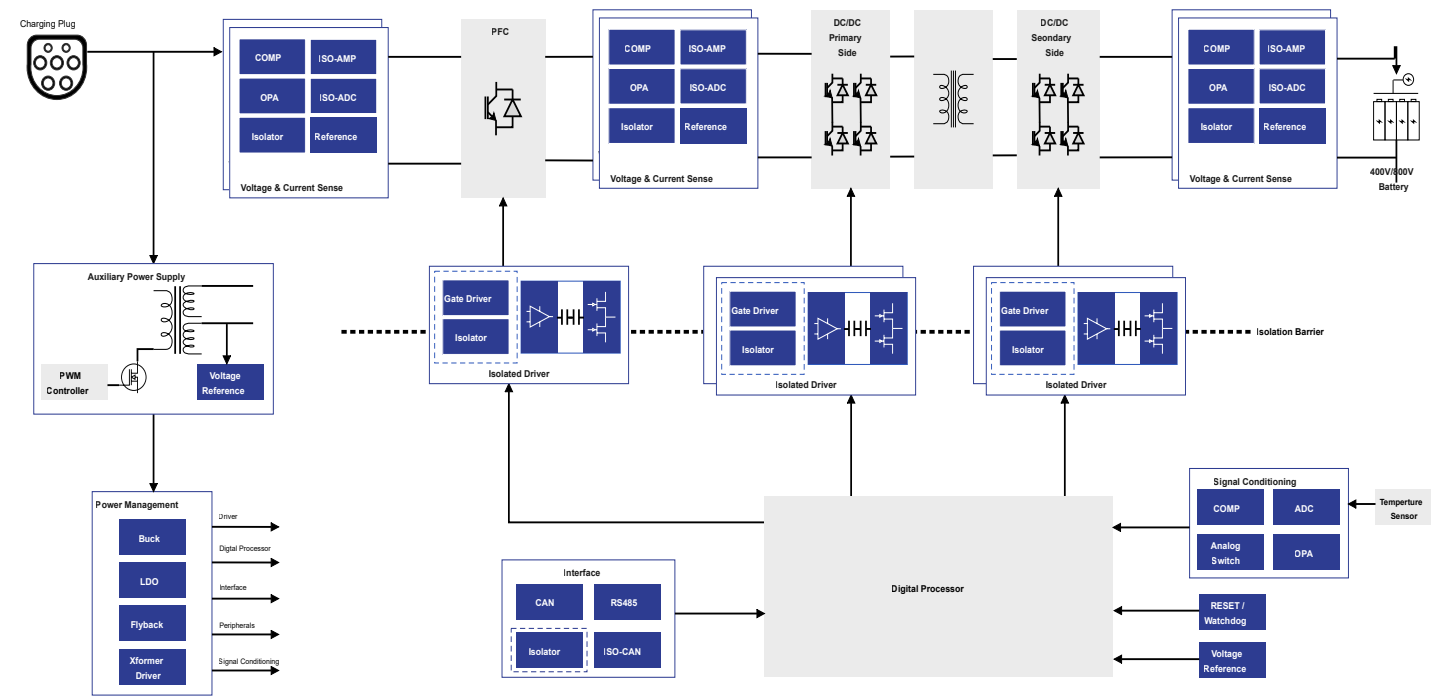
Infotainment

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.



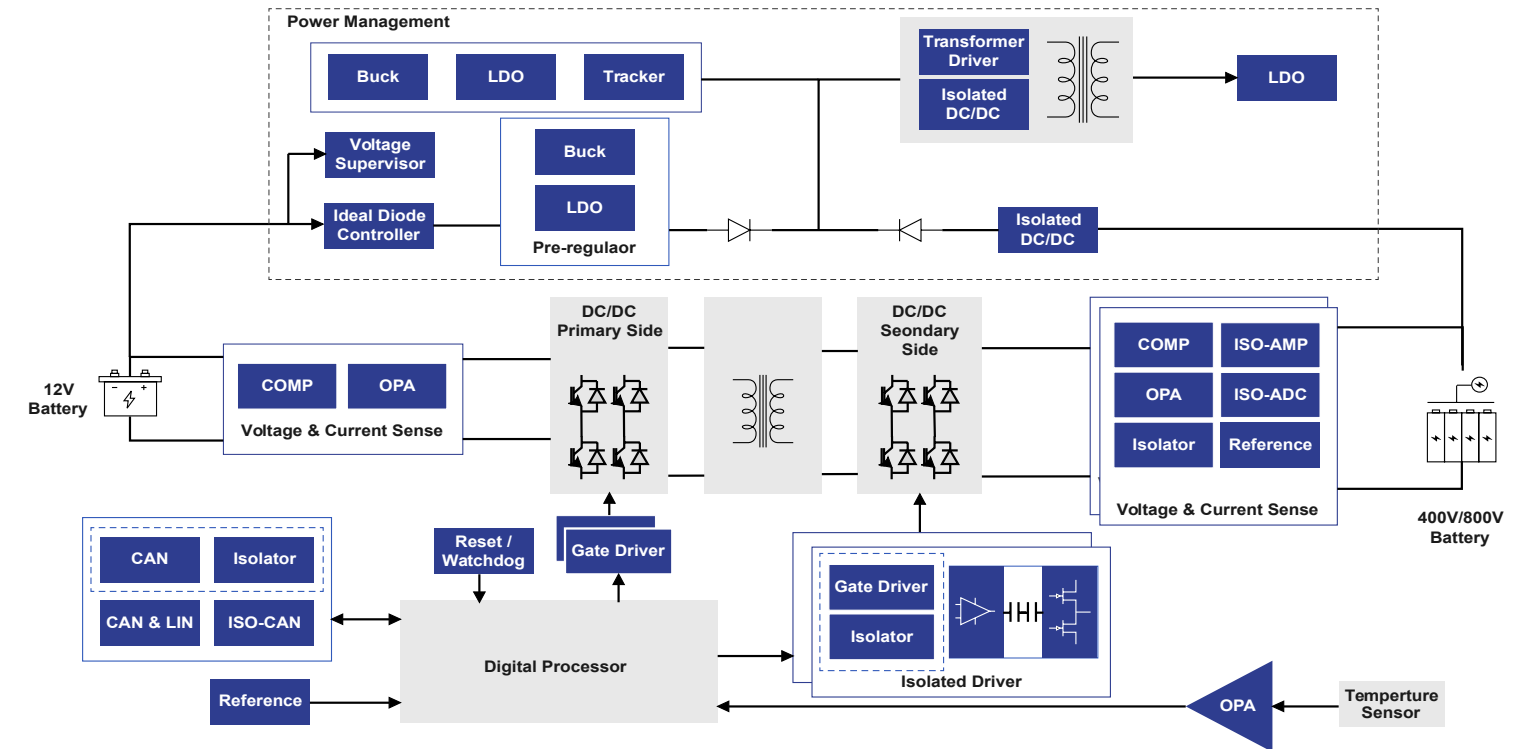
On-Board Charger (OBC)

The On-Board Charger (OBC) is responsible for charging management of the vehicle's battery. With the rapid increase in energy density of new energy vehicles, the demand for fast charging is becoming more and more popular, and the control system of OBC is becoming more and more complex. While ensuring the efficient operation of OBC, 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 12-V battery. The role of a high-low voltage DC converter is to convert the electrical energy of the high-voltage power battery into low-voltage 12-V battery energy, thereby providing energy for the control system.

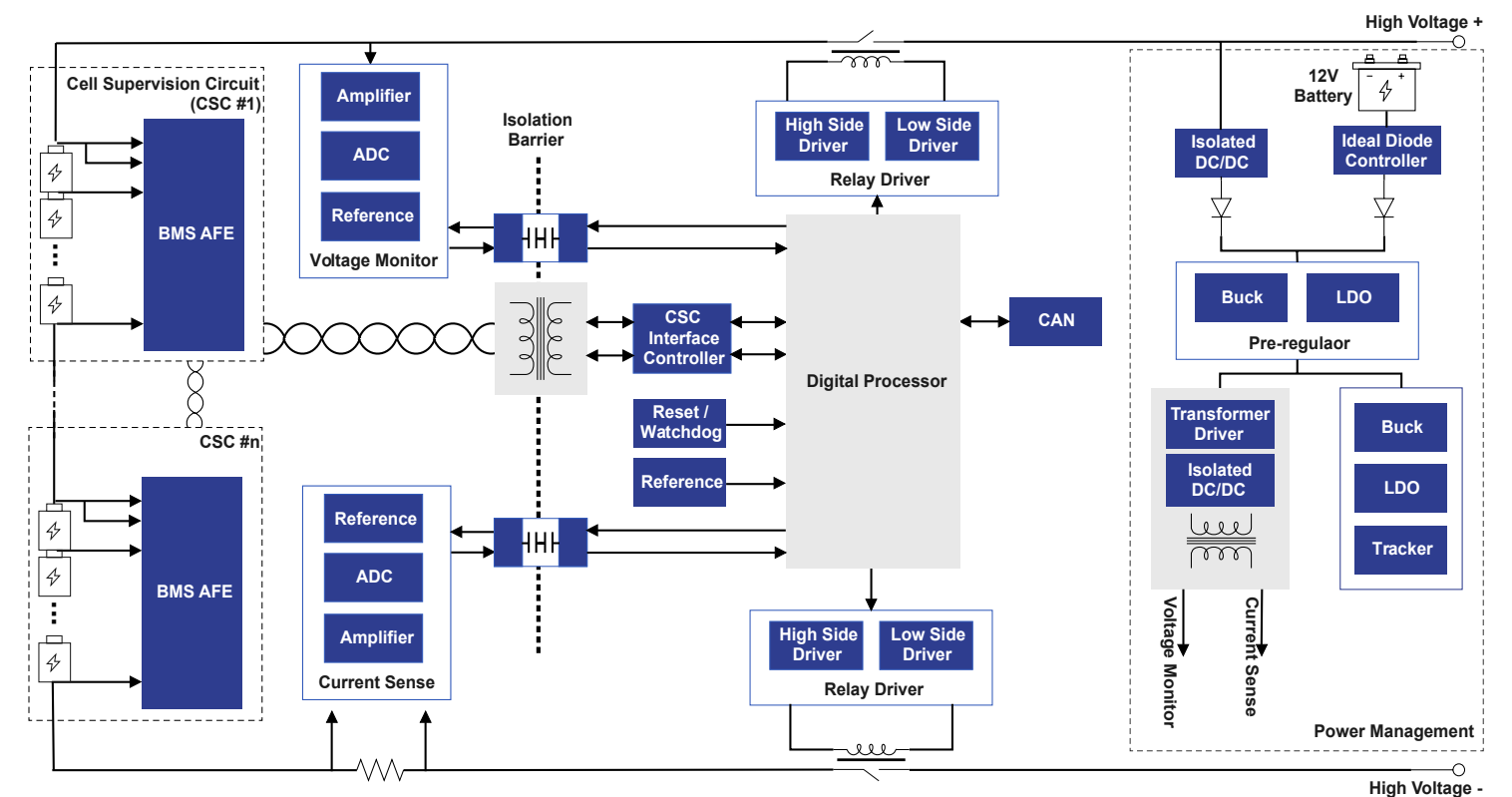
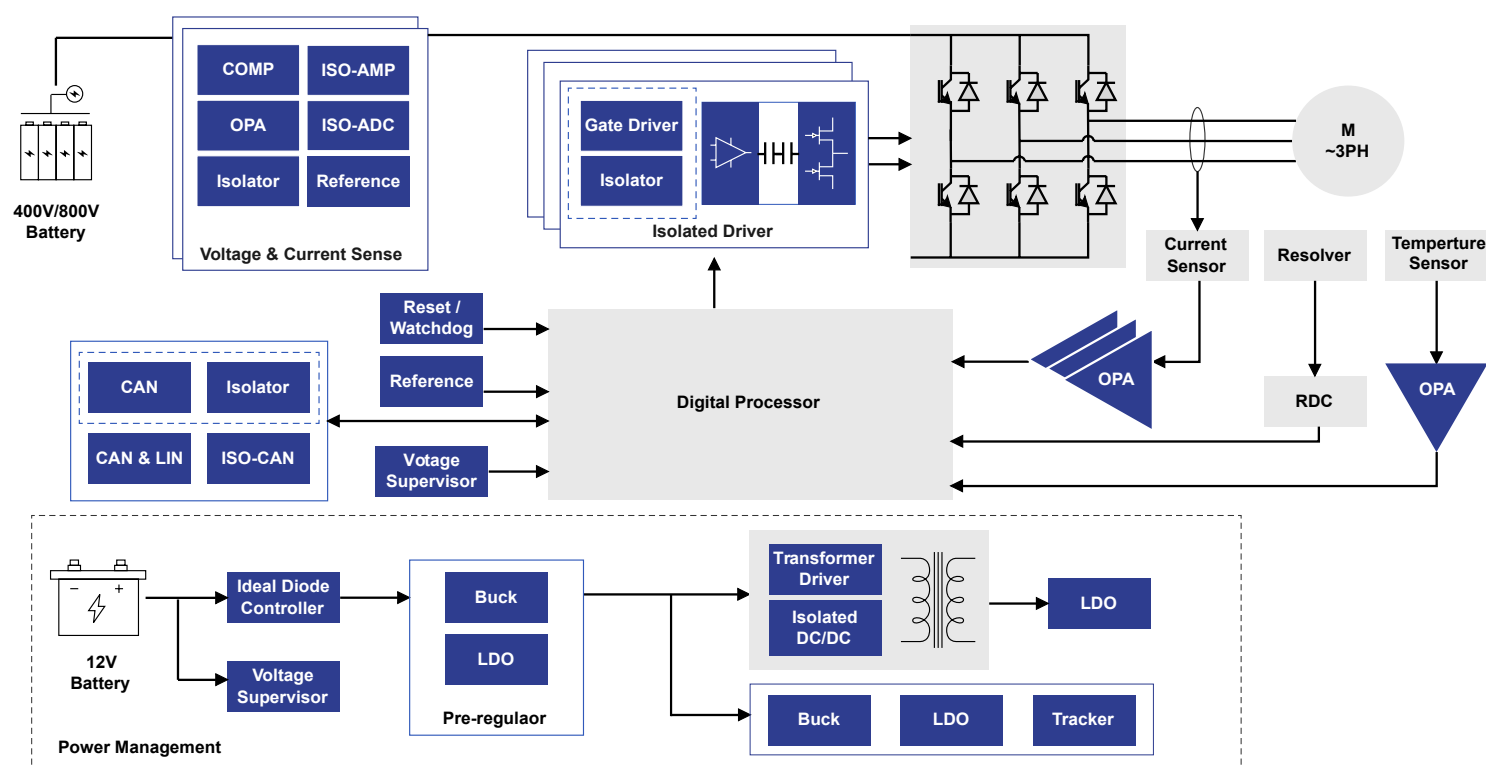


Traction Inverter

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, this necessitates its drive system to have high reliability, steady-state accuracy, and dynamic performance.

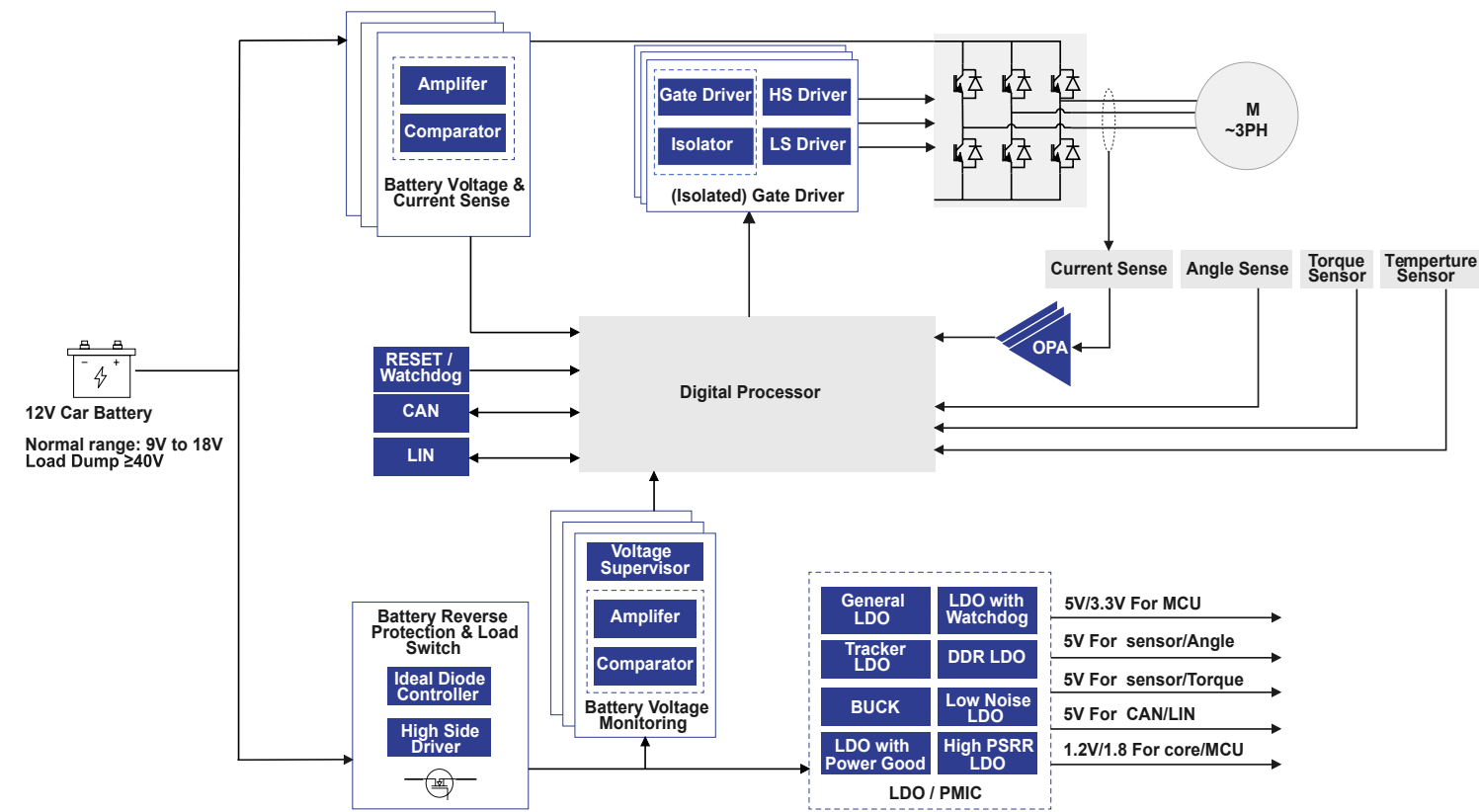
Automotive BMS

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



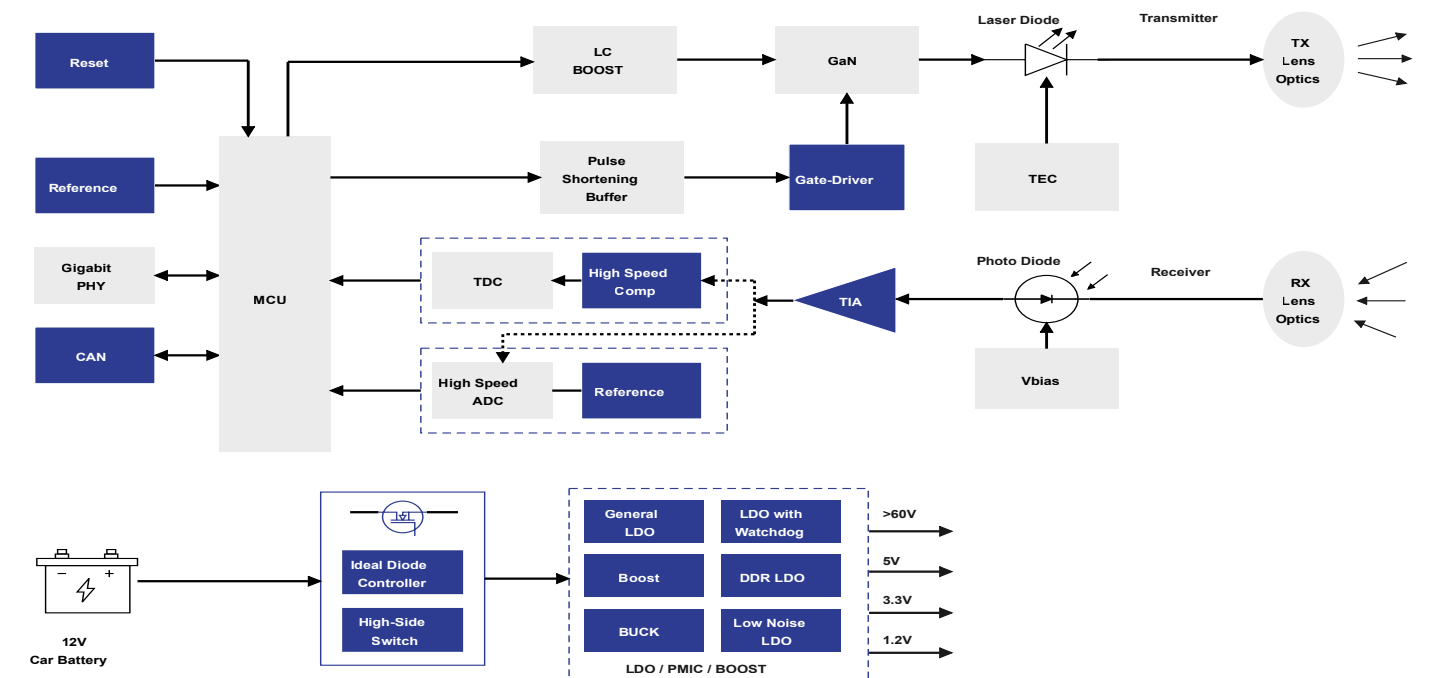
Electric Power Steering (EPS)

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 energy savings.



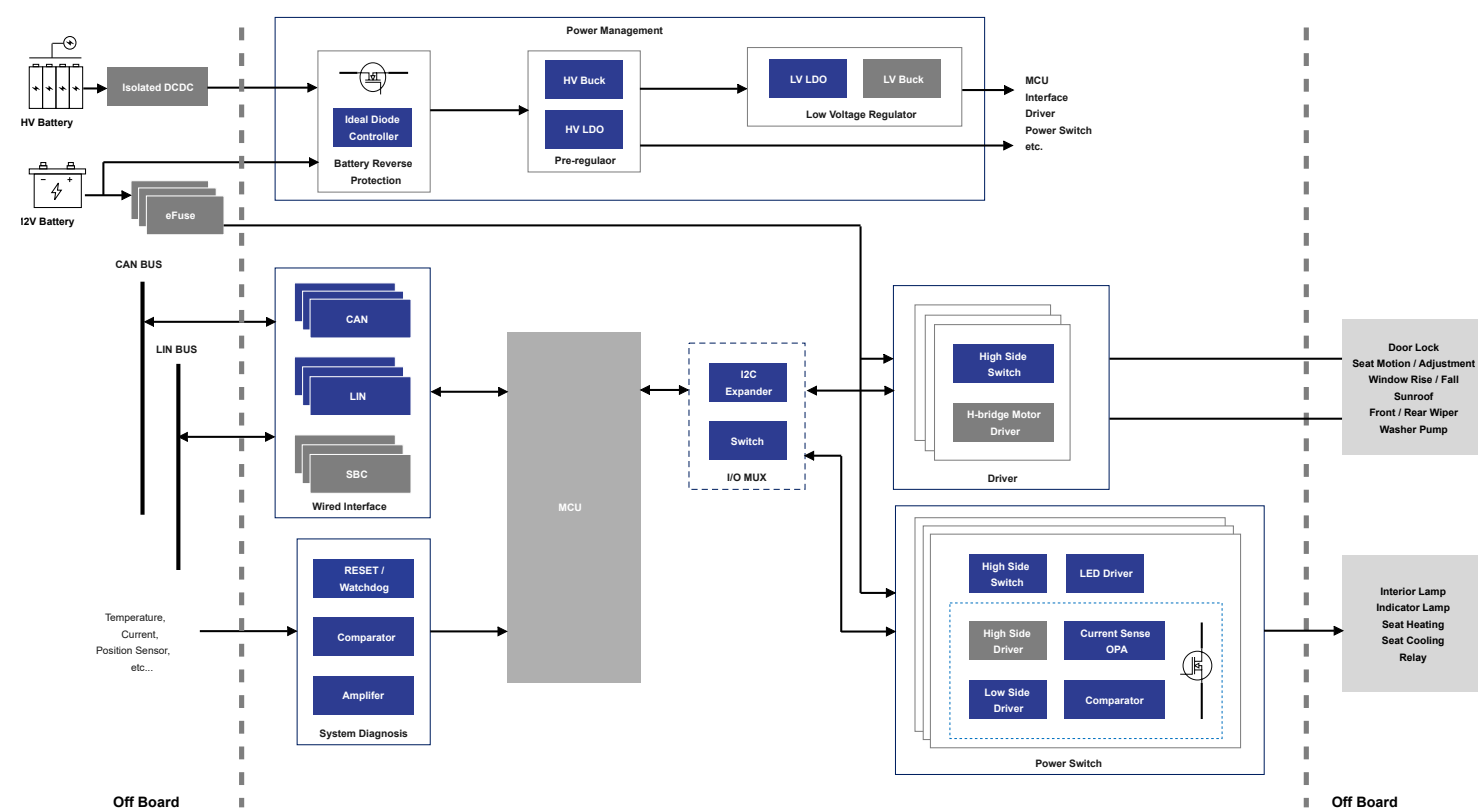
LiDAR

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.



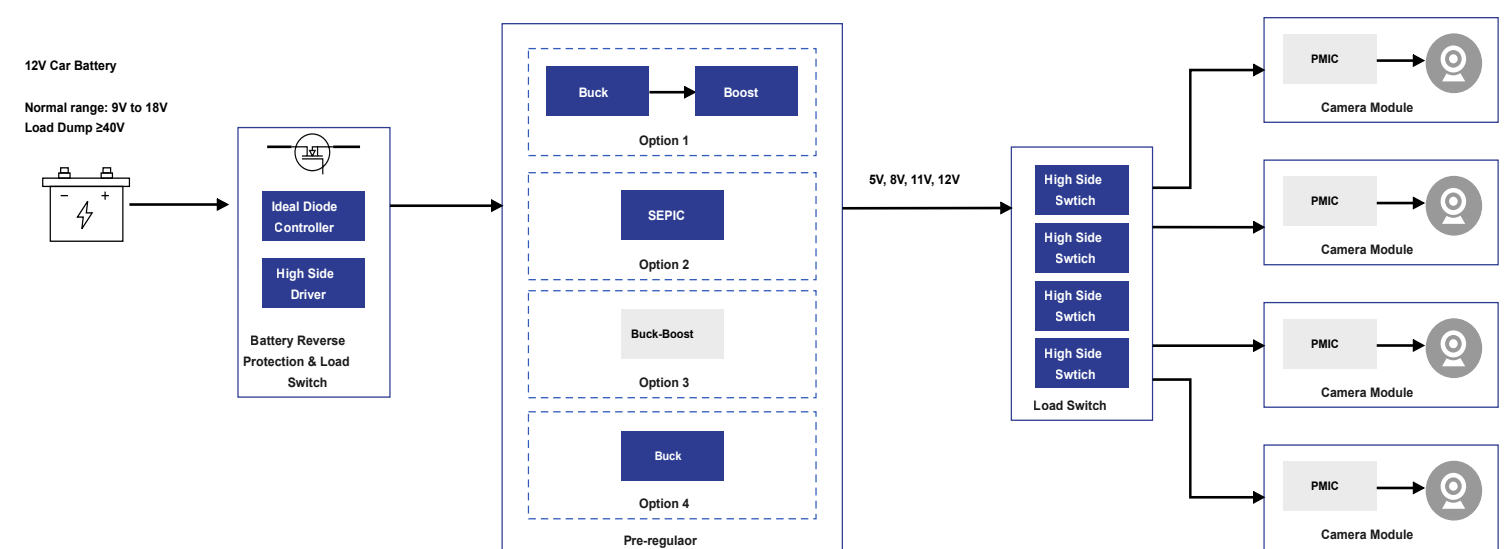
Body Domain Controller

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 functions.



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.





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