



3PEAK AUTOMOTIVE PRODUCTS

3PEAK has achieved breakthroughs in multiple core product areas such as signal chains and power management. The company has also built a comprehensive automotive chip product portfolio covering scenarios including body control, intelligent cockpits, ADAS, powertrains, and chassis systems.

Product Benefits

-  Broad Product Portfolio
-  Qualified for Automotive Applications
-  Innovation and Cost-Effectiveness
-  Vertical Integrated Supply Chain

System Certificate

 ISO 9001 Certificate	 ISO 14001 EMS Certificate
 ISO 45001 OHSMS Certificate	 ISO 17025 Laboratory Accreditation Certificate
 ISO 26262 Function Safety Process Certificate	 IATF 16949 Auto-QMS Certificate
 ISO 22301 BCM Certificate	 ESD S20.20 Electrostatic Discharge Control Certificate

Automotive QMS



IATF 16949
System Standard

Zero Defects
Quality First

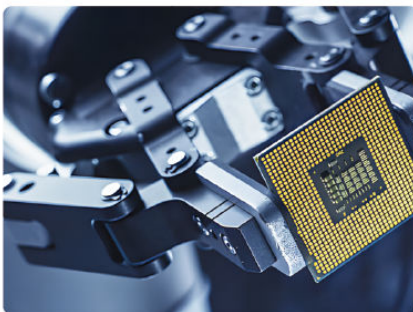
Achieve Customer
Satisfaction

Functional Safety

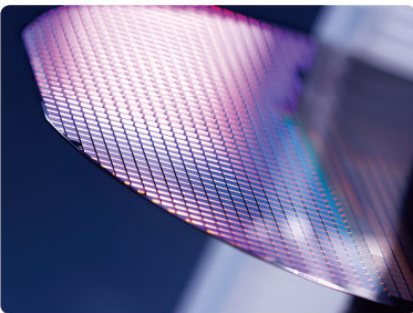
ISO 26262 ASIL D
Process Certification

Quality-Oriented
Safety First

Focus on Chip Safety
and Reliability



Automotive-Grade Test Center



Area: 8,000m²
Auto. Test Ctr.

Cap.: 10K/Mo.
Class 1K Wafer Test Workshop

Cap.: 100M/Mo.
Class 10K PKG.Test Workshop

Lab Center

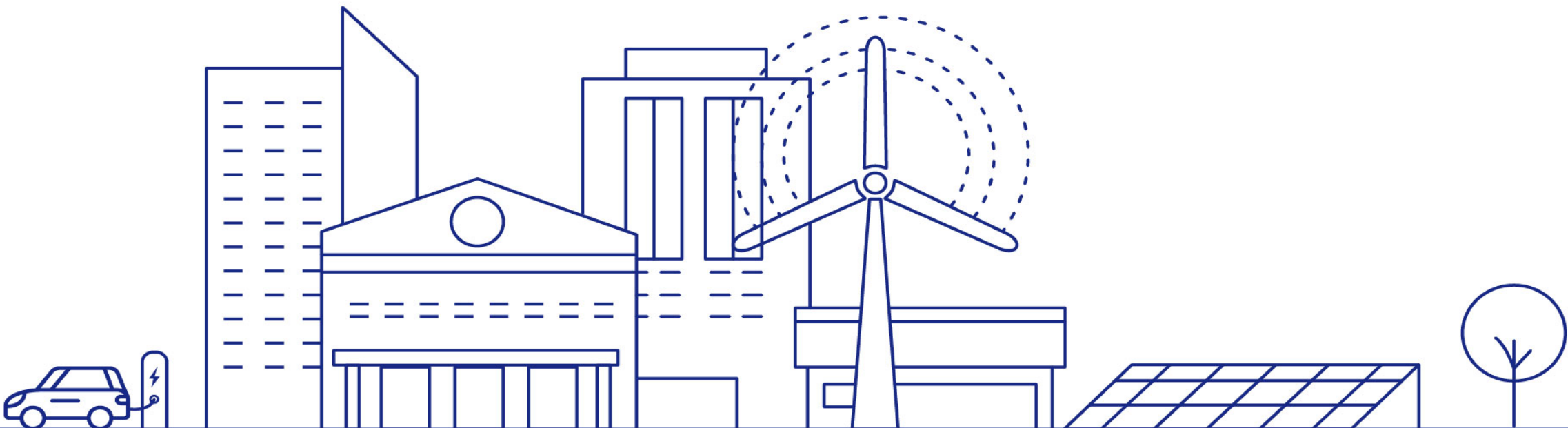
Chip Test
Wafer Test

Failure Analysis
Reliability Test

Application
Verification



3PEAK Automotive Product Categories



Automotive Application		Interface Product				Power Management Product						Signal Chain Product				Switch Product				Driver Product		
System	Sub-system	CAN Transceiver	LIN Transceiver	Digital Isolator	I2C Expander	LDO	DCDC	PMIC	SBC	Volt Ref	Volt Supervisor	General OPA	Special OPA	COMP	ADC	eFuse	Analog Switch	Oring Controller	High-side Switch	Gate Driver	Mtor Driver	LED Driver
Vehicle Control System	Vehicle Control Unit	●	●			●	●				●	●					●	●	●			
	Engine Control Unit	●	●			●	●				●	●							●			
Powertrain System	Traction Inverter	●		●		●	●		●	●	●	●	●	●				●		●		
	DC-DC	●		●		●	●			●	●	●	●	●				●		●		
	OBC	●		●		●	●			●	●	●	●	●				●		●		
	BMS	●		●		●	●			●	●	●	●	●	●				●	●		
	Transmission Control Unit	●				●	●			●	●	●	●	●	●				●	●		
Chassis System	Electronic controlled suspension system	●				●	●												●			
	EPS	●		●		●	●			●	●	●	●	●	●	●			●	●		
	ESC	●				●	●												●	●		
	ibooster	●				●	●				●	●	●						●	●		
	EPB	●				●	●		●				●						●			
	TPMS	●				●	●				●		●		●							
	BCM	●	●		●	●	●			●	●	●		●		●	●	●	●	●	●	●
Body Control System	Seat System	●	●			●	●					●				●			●	●	●	●
	Lighting System	●	●			●	●		●	●	●	●		●					●			●
	Passive Entry & Passive Start	●	●			●	●		●		●											
	Door / Roof Module	●	●			●	●		●		●	●		●	●		●		●	●	●	●
	RKE	●	●			●	●		●		●			●					●		●	
	Heating & Cooling	●	●	●		●	●			●	●	●		●					●	●	●	
	Infotainment	●				●	●	●		●	●		●	●		●	●	●	●			
Intelligent Cabin System	Cabin monitoring system	●				●	●	●		●	●		●	●		●	●	●	●	●		●
	Computing platform	●	●			●	●	●		●	●			●	●	●	●	●	●			
ADAS	mmWave radar	●				●	●	●			●					●						
	Multifunctional camera	●				●	●	●			●			●		●			●			
	LiDAR	●				●	●	●		●	●	●	●	●		●	●		●	●		
	Ultrasonic radar	●	●			●	●	●		●	●	●			●	●			●			
	Infrared camera	●				●	●	●		●	●			●		●			●			
	T-Box	●	●			●	●	●		●	●		●	●		●	●	●	●			●
Intelligent Interconnection System	Gateway Controller	●	●			●	●		●	●	●					●		●				
	OBU	●	●			●	●	●		●	●		●	●		●	●	●	●			●

● Released
 ● Sample & Developing
 Blank: No need

Automotive Products List

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Amplifiers & Special Function Circuits						
Comparators	LM2901A-SO2R-S	Production	SOP14	36V, General Comparator, BJT input, 4CH	LM2901	Generic Components, xEV
Comparators	LM2901A-TS2R-S	Production	TSSOP14	36V, 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	LM2903Q-VS1R-S	Production	MSOP8	36V, General Purpose Comparator, Open-Drain, 1us Delay, 2CH	LM2903	Generic Components, xEV
Comparators	TL331Q-S5TR-S	Production	SOT23-5	High Voltage General Purpose Comparator, Open-Drain, 1us Delay, 1CH		Generic Components, xEV
Comparators	TPA2031Q-S5TR-S	Production	SOT23-5	5V, 55ns High speed Comparators with Push-pull Output	TS3021	Generic Components, Lidar
Comparators	TPCMP231Q-S5TR-S	Production	SOT23-5	5V Comparator, 55ns, 1CH	TLV3501/TS3021A	Generic Components, Peak and Zero-crossing Detectors
Current-Sense Amplifiers	TPA132A1Q-SO1R-S	Production	SOP8	80Vcm, High Precision, Current Sense Amplifier, 20V/V	INA240/INA241	Motor Control, Solenoid
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, 150kHz Current-sense Amplifier, Bidirectional, G=20	INA199, INA191	Generic Components, xEV
Current-Sense Amplifiers	TPA191A2Q-SC6R-S	Production	SOT363	36Vcm, 80kHz Current-sense Amplifier, Bidirectional, G=50	INA199, INA191	Generic Components, xEV
Current-Sense Amplifiers	TPA191A4Q-SC6R-S	Production	SOT363	36Vcm, 30kHz Current-sense Amplifier, Bidirectional, G=100	INA199, INA191	Generic Components, xEV
Current-Sense Amplifiers	TPA191A5Q-SC6R-S	Production	SOT363	36Vcm, 15kHz Current-sense Amplifier, Bidirectional, G=200	INA199, INA191	Generic Components, xEV
Current-Sense Amplifiers	TPA2296T-S5TR-S	Production	SOT23-5	HV, High-side Current Sense Amplifier	LMP8640/INA293/INA280	Generic Components, xEV
High Voltage Op Amps	LM2902A-SO2R-S	Production	SOP14	36V, 4CH Amplifier	LM2902	Generic Components, xEV
High Voltage Op Amps	LM2902A-TS2R-S	Production	TSSOP14	36V, 4CH Amplifier	LM2902	Generic Components, xEV
High Voltage Op Amps	LM2904A-SO1R-S	Production	SOP8	36V, 2CH Amplifier	LM2904	Generic Components, xEV
High Voltage Op Amps	LM2904A-TS1R-S	Production	TSSOP8	36V, 2CH Amplifier	LM2904	Generic Components, xEV
High Voltage Op Amps	LM2904A-VS1R-S	Production	MSOP8	36V, 2CH Amplifier	LM2904	Generic Components, xEV
High Voltage Op Amps	LM2904Q-SO1R-S	Production	SOP8	36V, General Purpose OPA, 1MHz, 2CH	LM2904	Generic Components, xEV
High Voltage Op Amps	TP2261L1-S5TR-S	Production	SOT23-5	36V, High slew rate, HighVoltage, OPA, 1CH		Generic Components
High Voltage Op Amps	TP2262L1-SO1R-S	Production	SOP8	36V, High Slew Rate, HighVoltage, OPA, 2CH		Generic Components
High Voltage Op Amps	TP2264-TS2R-S	Production	TSSOP14	36V, High Slew Rate, HighVoltage, OPA, 4CH		Generic Components
High Voltage Op Amps	TPA1861Q-S5TR-S	Production	SOT23-5	36V, 6MHz, 80uV Amplifier, 1CH	OPA197	Generic Components, xEV
High Voltage Op Amps	TPA1862Q-SO1R-S	Production	SOP8	36V, 6MHz, 80uV Amplifier, 2CH	OPA2197	Generic Components, xEV
High Voltage Op Amps	TPA1881Q-S5TR-S	Production	SOT23-5	36V, 12MHz, 50uV Amplifier, 1CH	OPA197	Generic Components, xEV
High Voltage Op Amps	TPA1882Q-SO1R-S	Production	SOP8	36V, 12MHz, 50uV Amplifier, 2CH	OPA2197	Generic Components, xEV

Automotive Products List

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Amplifiers & Special Function Circuits						
High Voltage Op Amps	TPA1882Q-VR-S	Production	MSOP8	36V, 12MHz, 50uV Amplifier, 2CH	OPA2197	Generic Components, xEV
High Voltage Op Amps	TPA2644-SO2R-S	Production	SOP14	High Voltage, High PSRR, Low Noise OPA		Generic Components, xEV
High Voltage Op Amps	TPA2772Q-SO1R-S	Production	SOP8	30V, 6MHz TO 15MHz, RRIO OPA, 2CH		Generic Components, xEV
uOPA	TP1561AL1-S5TR-S	Production	SOT23-5	6V, 6MHz RRIO OPA, 1CH	TLV9001-Q1	Generic Components
uOPA	TP1562AL1-SO1R-S	Production	SOP8	6V, 6MHz RRIO OPA, 2CH	TLV9002-Q1	Generic Components
uOPA	TP1562AL1-VS1R-S	Production	MSOP8	6V, 6MHz RRIO OPA, 2CH	TLV9002-Q1	Generic Components
uOPA	TP1564AL1-SO2R-S	Production	SOP14	6V, 6MHz RRIO OPA, 4CH	TLV9004-Q1	Generic Components
uOPA	TP1564AL1-TS2R-S	Production	TSSOP14	6V, 6MHz RRIO OPA, 4CH	TLV9004-Q1	Generic Components
uOPA	TPA6582Q-SO1R-S	Production	SOP8	5V OPA, 10MHz, 8V/us, RRIO, 2CH	TLV9062-Q	Generic Components, HVAC, PTC
uOPA	TPA6582Q-VS1R-S	Production	MSOP8	5V OPA, 10MHz, 8V/us, RRIO, 2CH	TLV9062-Q	Generic Components, HVAC, PTC
uOPA	TPA6581Q-S5TR-S	Production	SOT23-5	5V OPA, 10MHz, 8V/us, RRIO, 1CH	TLV9061-Q1	Generic Components, HVAC, PTC
Low Voltage Op Amps	TPA5561Q-S5TR-S	Production	SOT23-5	5V, 3.5MHz, 50uV Vos, High Precision Amplifier	TSZ181, OPA335	Generic Components, xEV
Low Voltage Op Amps	TPA5562Q-SO1R-S	Production	SOP8	5V, Zero-drift OPA, 2CH	TSZ181	Generic Components
Low Voltage Op Amps	TPA5562Q-VS1R-S	Production	MSOP8	5V, Zero-drift OPA, 2CH	TLV900xQ, TLV906xQ	Generic Components
Low Voltage Op Amps	TPA5571NQ-S6TR-S	Production	SOT23-6	5V, 15MHz, 500uV Amplifier with EN, 1CH	TLV900xQ, TLV906xQ	Generic Components
Low Voltage Op Amps	TPA5571Q-S5TR-S	Production	SOT23-5	5V, 15MHz, 500uV Amplifier, 1CH	TLV900xQ, TLV906xQ	Generic Components
Low Voltage Op Amps	TPA5572Q-SO1R-S	Production	SOP8	5V, 15MHz, 500uV Amplifier, 2CH	TLV900xQ, TLV906xQ	Generic Components
Low Voltage Op Amps	TPA5572Q-VS1R-S	Production	MSOP8	5V, 15MHz, 500uV Amplifier, 2CH	TLV900xQ, TLV906xQ	Generic Components
Low Voltage Op Amps	TPH2861-DF4R-S	Production	DFN2X2-8	5V, 8GHz, G=7 Stable	OPA855	Lidar
Low Voltage Op Amps	TPH2861Q-DFVR-S	Production	DFN2X2-8	5V, 8GHz, G=7 Stable	OPA855-Q1	Lidar
Isolated Amplifiers & Modulators	TPA8023-SO1R-S	Production	SOP8	G=1, 300KHz, Single-End Input/Output Isolated Amplifier	AMC0211, AMC0311	Generic Components
Data Converter						
Precision ADC	TPC5120Q-TS7R-S	Production	TSSOP38	12 bit, 1MSPS, 16CH ADC	ADS7953-Q1	BMS, PDU, Infotainment, Charging Pile Station, PTC, Panel
Precision ADC	TPC5121Q-TS8R-S	Production	TSSOP30	12 bit, 1MSPS, 8CH ADC	ADS7951-Q1	BMS, PDU, Infotainment, Charging Pile Station, PTC, Panel
Precision ADC	TPC6160IQ-VS2R-S	Production	MSOP10	I2C Interface, 16 bit, 8 kSPS, 4CH, Σ - Δ ADC with Internal Reference	ADS1115-Q1	BMS, Current Sensor, PDU, Infotainment, Charging Pile Station, PTC, Panel
Precision ADC	TPC6160SQ-VS2R-S	Production	MSOP10	SPI Interface, 16 bit, 8 kSPS, 4CH, Σ - Δ 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	SPI Interface, 24 bit, 32 kSPS, 4CH, Σ - Δ ADC with Internal Reference and Temperature Sensor	ADS1118-Q1	BMS, Current Sensor, PDU, Infotainment, Charging Pile Station, PTC, Panel
Current-Power Monitor	TPA626-VS2R-S	Production	MSOP10	0V-36V Sense Voltage, Bi-Directional Current and Power Monitor	INA226-Q1	BMS, Current Sensor

Automotive Products List

Category	Part Number	Status	Package	Description	Compatible P/N	Application
DCDC						
Boost Converter	TPQ50551Q-DFTR-S	Production	DFN3X2-12	50V, 2.2MHz, Boost/SEPIC/Flyback Controller with 1.5-A Driver and Hiccup Overload Protection	LM5155-Q1, LM5156-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost Converter	TPQ50551WQ-DFTR-S	Production	DFN3X2-12	50V, 2.2MHz, Boost/SEPIC/Flyback Controller with 1.5A Driver and Hiccup Overload Protection in Wettable Flank DFN3x2 Package	LM5155-Q1, LM5156-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost Converter	TPQ50552Q-DFTR-S	Production	DFN3X2-12	50V, 2.2MHz, Boost/SEPIC/Flyback Controller with 1.5A Driver and Spread Spectrum Function, No Hiccup Overload Protection	LM5155-Q1, LM5156-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost Converter	TPQ50553Q-DFTR-S	Production	DFN3X2-12	50V, 2.2MHz, Boost/SEPIC/Flyback Controller with 1.5A Driver and Spread Spectrum Function	LM5155-Q1, LM5156-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost Converter	TPQ5055Q-DFTR-S	Production	DFN3X2-12	50V, 2.2MHz, Boost/SEPIC/Flyback Controller with 1.5A Driver	LM5155-Q1, LM5156-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost Converter	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 Converter	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 Converter	TPQ5180Q-DFMR-S	Production	DFN4X4-8	75V, PSR Flyback DC/DC Converter with 100V, 2A Internal Switch	LM5180-Q1, LM21580-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Boost Converter	TPQ5181Q-DFMR-S	Production	DFN4X4-8	60V, PSR Flyback DC/DC Converter with 100V, 2A Internal Switch	LM5180-Q1, LM21580-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, Wireless Charging, Lighting System
Wide-Vin Buck Converters	TPP361072Q-FC6R-S	Production	QFN2X3-12	36V, 1A, Low Iq Synchronous Step-Down Regulator, 2.1MHz, PFM	LMR33610-Q1	Infotainment, ADAS, Body Electronics, HV/LV DCDC, OBC, Lighting, Charging System, Generic Purposes
Wide-Vin Buck Converters	TPP363070Q-FC6R-S	Production	QFN2X3-12	36V, 3A, Low Iq Synchronous Step-Down Regulator, 400kHz, PFM	LMR33630-Q1	Infotainment, ADAS, Body Electronics, HV/LV DCDC, OBC, Lighting, Charging System, Generic Purposes
Wide-Vin Buck Converters	TPP363072Q-FC6R-S	Production	QFN2X3-12	36V, 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
Wide-Vin Buck Converters	TPP363090Q-FC3R-S	Production	QFN4X3.5-14	36V, 3A, Low Iq Synchronous Step-Down Regulator, Auto Mode, with Spread Spectrum, Adj Output	LM61430-Q1	Infotainment, ADAS, Body Electronics, HV/LV DCDC, OBC, Lighting, Charging System, Generic Purposes
Wide-Vin Buck Converters	TPP366090Q-FC3R-S	Production	QFN4X3.5-14	36V, 6A, Low Iq Synchronous Step-Down Regulator, Auto Mode, with Spread Spectrum, Adj Output	LM61460-Q1	Infotainment, ADAS, Body Electronics, HV/LV DCDC, OBC, Lighting, Charging System, Generic Purposes
Wide-Vin Buck Converters	TPP366091Q-FC3R-S	Production	QFN4X3.5-14	36V, 6A, Low Iq Synchronous Step-Down Regulator, FPWM, with Spread Spectrum, Adj Output	LM61460-Q1	Infotainment, ADAS, Body Electronics, HV/LV DCDC, OBC, Lighting, Charging System, Generic Purposes
Drivers						
Non-isolated Gate Drivers	TPM2015Q-FC1R-S	Production	QFN2X2-10	1CH Lowside GaN Gate 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, 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

Automotive Products List

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Drivers						
Isolated Gate Drivers	TPM5350MQ-SOAR-S	Production	WSOP8	40V, 5A, Isolated Gate Driver, Miller Clamp	UCC5350MC, NSI6601	HV/LV DCDC, OBC, Traction Inverter Charging Pile Station
Isolated Power Supply	TPM6501AQ-S5TR-S	Production	SOT23-5	30V, 500mA, Push-pull Isolated DCDC, 420 kHz	SN6501-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, BMS
Isolated Power Supply	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
Isolated Power Supply	TPM6505BQ-S6TR-S	Production	SOT23-6	30V, 1A, Push-pull Isolated DCDC, 420 kHz	SN6505B-Q1	HV/LV DCDC, OBC, Traction Inverter, Charging Pile Station, BMS
Stepper Motor Drivers	TPM8909Q-QFZR-S	Production	QFN5X5-32	80V, 1A, 16CH, Half-bridge Capacitive Driver for VCSEL		Lidar
DC Motor Drivers	TPM92611Q-EV1R-S	Production	EMSOP8	40V, 450mA, Linear LED Driver with Diagnostics	TPS92611	Lighting System
Interface						
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	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	TPT1043Q-DFKR-S	Production	DFN4.5X3-14	CAN FD, 70V, Sleep Mode and INH	TJA1043, TCAN1043	CAN Network inVehcile, Generic Components
CAN	TPT1043Q-SO2R-S	Production	SOP14	CAN FD, 70V, Sleep Mode and INH	TJA1043, TCAN1043	CAN Network inVehcile, Generic Components
CAN	TPT1044Q-DFCR-S	Production	DFN3X3-8	CAN FD up to 5Mbps, 42V BUS, Standby, Pin5=NC	TJA1044, TCAN1044	CAN Network inVehcile, Generic Components
CAN	TPT1044Q-SO1R-S	Production	SOP8	CAN FD up to 5Mbps, 42V BUS, Standby, Pin5=NC	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, Pin5=NC	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1051Q-SO1R-S	Production	SOP8	CAN FD, 70V CAN BUS, Pin5=NC	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1051VQ-DF6R-S	Production	DFN3X3-8	CAN FD, 70V CAN BUS, Pin5=VIO	TJA1051, TCAN1051	CAN Network inVehcile, Generic Components
CAN	TPT1051VQ-SO1R-S	Production	SOP8	CAN FD, 70V CAN BUS, Pin5=VIO	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	TPT1057VQ-SO1R-S	Production	SOP8	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-DFCR-S	Production	DFN3X3-8	CAN SIC up to 8Mbps, 42V BUS, Standby, Pin5=NC	TJA1462, TCAN1462	CAN Network inVehcile, Generic Components
CAN	TPT1462Q-SO1R-S	Production	SOP8	CAN SIC up to 8Mbps, 42V BUS, Standby, Pin5=NC	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

Automotive Products List

Category	Part Number	Status	Package	Description	Compatible P/N	Application
Interface						
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	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
LIN	TPT1029Q-SO1R-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, TLIN1028	LIN Network inVehcile, BCM
SBC	TPT10283Q-ES1R-S	Production	ESOP8	3.3V, 125mA, LIN SBC	TJA1028, TLIN1028	LIN Network inVehcile, BCM
SBC	TPT10283Q-SO1R-S	Production	SOP8	3.3V, 125mA, LIN SBC	TJA1028, TLIN1028	LIN Network inVehcile, BCM
SBC	TPT10285Q-DFCR-S	Production	DFN3X3-8	5V, 125mA, LIN SBC	TJA1028, TLIN1028	LIN Network inVehcile, BCM
SBC	TPT10285Q-ES1R-S	Production	ESOP8	5V, 125mA, LIN SBC	TJA1028, TLIN1028	LIN Network inVehcile, BCM
SBC	TPT10285Q-SO1R-S	Production	SOP8	5V, 125mA, LIN SBC	TJA1028, TLIN1028	LIN Network inVehcile, BCM
SBC	TPT11695XFQ-DFUR-S	Production	DFN5.5X3.5-20	CAN SBC, 5V LDO+external control, Watch dog, SPI, PN	UJA1169	CAN Network inVehcile, Generic Components
IO Expander	TPT29539Q-TS5R-S	Production	TSSOP24	I2C to 16bit GPIO Expander with Interrupt and Reset	TCA9539-Q1, TCAL9539-Q1, PCA9539	Generic Components
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
Low Voltage Switch	TPW3188-TS3R-S	Production	TSSOP16	5V, 8 to 1, Analog Switch, 500MHz	TMUX1308	Generic Components, Zonal
Low Voltage Switch	TPW3188AQ-TS3R-S	Production	TSSOP16	5V, 8 to 1, Analog Switch, 500MHz	TMUX1308	Generic Components, Zonal
Low Voltage Switch	TPW3188Q-TS3R-S	Production	TSSOP16	5V, 8 to 1, Analog Switch, 500MHz	TMUX1308	
Low Voltage Switch	TPW3188Q-QN4R-S	Production	QFN2.5X3.5-16	5V, 8 to 1, Analog Switch, 500MHz	TMUX1308	
LDO & Voltage Reference						
High Voltage LDO	TPL803133Q-DF6R-S	Production	DFN3X3-8	42V/300mA Wide InputVoltage Range, 3uA Ultralow Iq LDO	RTQ2569	Generic Components
High Voltage LDO	TPL803133Q-EV1R-S	Production	EMSOP8	42V/300mA Wide InputVoltage Range, 3uA Ultralow Iq LDO	TPS7B82-Q1	Generic Components
High Voltage LDO	TPL803150Q-DF6R-S	Production	DFN3X3-8	42V/300mA Wide InputVoltage Range, 3uA Ultralow Iq LDO	RTQ2569	Generic Components
High Voltage LDO	TPL803150Q-EV1R-S	Production	EMSOP8	42V/300mA Wide InputVoltage Range, 3uA Ultralow Iq LDO	TPS7B82-Q1	Generic Components
High Voltage LDO	TPL803133Q-ST4R-S	Production	SOT223-3	42V/300mA Wide InputVoltage Range, 3uA Ultralow Iq LDO	TPS7B69-Q1	Generic Components
High Voltage LDO	TPL803150Q-ST4R-S	Production	SOT223-3	42V/300mA Wide InputVoltage Range, 3uA Ultralow Iq LDO	TPS7B69-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	TPL803450Q-EV1R-S	Production	EMSOP8	42V/300mA Wide Input Voltage Range, Ultralow Iq LDO with PG	TPS7A66-Q1	Generic Components
High Voltage LDO	TPL803433Q-EV1R-S	Production	EMSOP8	42V/300mA Wide Input Voltage Range, Ultralow Iq LDO with PG	TPS7A66-Q1	Generic Components
High Voltage LDO	TPL803550Q-DF6R-S	Production	DFN3X3-8	42V/300mA, 3-uA Low Quiescent Current, LDO	MPQ2013(fixed output)	Generic Components

Automotive Products List

Category	Part Number	Status	Package	Description	Compatible P/N	Application
LDO & Voltage Reference						
High Voltage LDO	TPL803533Q-DF6R-S	Production	DFN3X3-8	42V/300mA, 3- μ A Low Quiescent Current, LDO	MPQ2013(fixed output)	Generic Components
High Voltage LDO	TPL803533Q-EV1R-S	Production	EMSOP8	42V/300mA, 3- μ A Low Quiescent Current, LDO	TPS7B82-Q1	Generic Components
High Voltage LDO	TPL803550Q-EV1R-S	Production	EMSOP8	42V/300mA, 3- μ A Low Quiescent Current, LDO	TPS7B82-Q1	Generic Components
High Voltage LDO	TPL8051ADQ-DFCR-S	Production	DFN3X3-8	42V/450mA, Ultralow Iq LDO	MPQ2013(adjustable output)	Generic Components
High Voltage LDO	TPL8151ADQ-ES1R-S	Production	ESOP8	30V/1.5A HVLDO	LD1086	Generic Components
High Voltage LDO	TPL853633Q-TSBR-S	Production	ETSSOP16	42V/300mA Low Iq LDO with Watchdog Timer	TPS7B63xx-Q1, TPS7A63xx-Q1	Generic Components
High Voltage LDO	TPL853650Q-TSBR-S	Production	ETSSOP16	42V/300mA Low Iq LDO with Watchdog Timer	TPS7B63xx-Q1, TPS7A63xx-Q1	Generic Components
High Voltage LDO	TPL855650Q-TSCR-S	Production	ETSSOP28	42V/500mA Low Iq LDO with Watchdog Timer	TPS7B68xx-Q1	Generic Components
High Voltage LDO	TPL855633Q-TSCR-S	Production	ETSSOP28	42V/500mA Low Iq LDO with Watchdog Timer	TPS7B68xx-Q1	Generic Components
High Voltage LDO	TPL8601Q-ES1R-S	Production	ESOP8	42V/150mA Voltage Tracking LDO with Output Feedback for Sensors Power Supply	TLS115	Generic Components
High Voltage LDO	TPL8602FQ-ES1R-S	Production	ESOP8	42V/250mA Voltage Tracking LDO with Output Feedback for Sensors Power Supply	TPS7B4253-Q1, TLE4253	Generic Components
High Voltage LDO	TPL8650Q-S5TR-S	Production	SOT23-5	42V/50mA Voltage Tracking LDO with Output Feedback for Sensors Power Supply	TPS7B4250-Q1, TLE4250, TLS105	Generic Components
High Voltage LDO	TPL8771Q-TSBR-S	Production	ETSSOP16	42V/300mA 1CH LDO with Accurate Current Sense and Protection	TPS7B7701	Antenna
High Voltage LDO	TPL8772Q-TSBR-S	Production	ETSSOP16	42V/300mA 2CH 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
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, Ultra-low Noise, LDO	TPS7A8101-Q1, RTQ2510, MPQ25001, NCV59800	Generic Components
Series Voltage Reference	TPR3312-S3TR-S	Production	SOT23G-3	Low Temp-Co, Precision Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3320-S3TR-S	Production	SOT23G-3	Low Temp-Co, Precision Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3325-S3TR-S	Production	SOT23G-3	Low Temp-Co, Precision Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3330-S3TR-S	Production	SOT23G-3	Low Temp-Co, Precision Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3333-S3TR-S	Production	SOT23G-3	Low Temp-Co, Precision Series Voltage Reference	REF31, REF33	Generic Components
Series Voltage Reference	TPR3340-S3TR-S	Production	SOT23G-3	Low Temp-Co, Precision Series Voltage Reference	REF31, REF33	Generic Components
Shunt Voltage Reference	TPR6040F20-S3TR-S	Production	SOT23G-3	0.1%, 25ppm/ $^{\circ}$ C, Shunt Voltage Reference	LM4040, TL4040,ADR504x	Generic Components

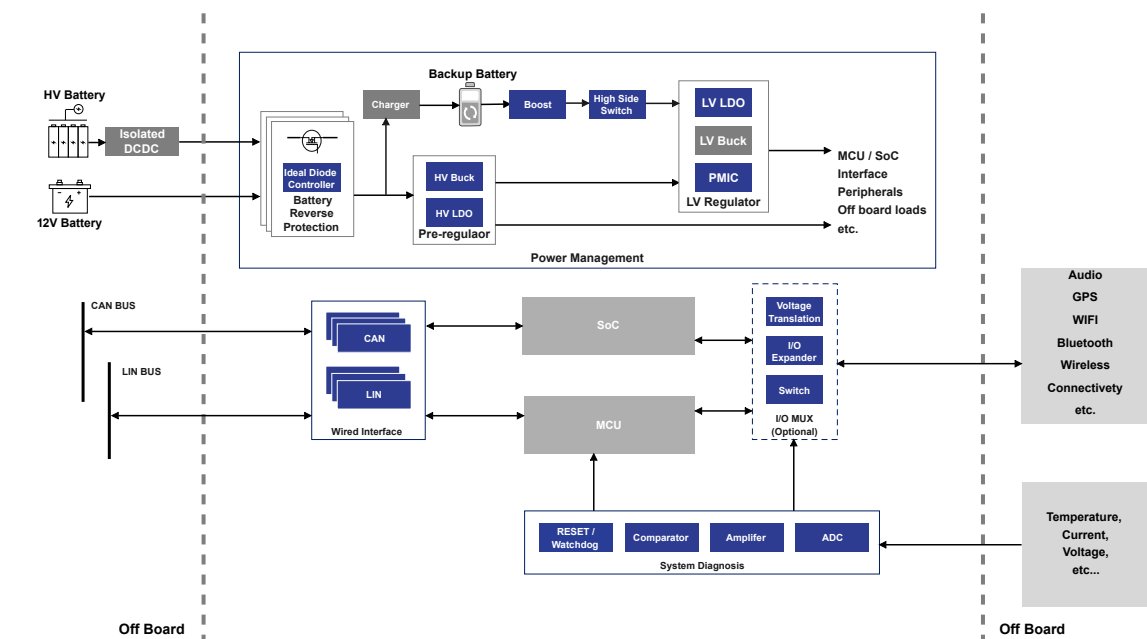
Automotive Products List

Category	Part Number	Status	Package	Description	Compatible P/N	Application
LDO & Voltage Reference						
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
Power Switches						
High-Side Switches	TPS42S40BQ-TSAR-S	Production	ETSSOP14	42V/4A Smart High-Side Switch with Current Sense	TPS1H100B-Q1	BCM
High-Side Switches	TPS42S40AQ-TSAR-S	Production	ETSSOP14	42V/4A Smart High-Side Switch with Status Indication	TPS1H100A-Q1	BCM
EFUSE	TPS60C01Q-QFZR-S	Production	QFN5X5-32	High-side Efuse Controller	VNF1048	BCM
Ideal Diode/ORing Controllers	TPS65R01Q-S6TR-S	Production	SOT23-6	65V Ideal Diode Controller	LM74700	Generic Components
Supervisors						
Reset ICs with Watchdog	TPV6820SQ-S5TR-S	Production	SOT23-5	Supervisory Circuit with Watchdog and Manual Reset	TPS3820	Generic Components
Reset ICs with Watchdog	TPV6823SQ-S5TR-S	Production	SOT23-5	Supervisory Circuit with Watchdog and Manual Reset	TPS3828	Generic Components
Reset ICs with Watchdog	TPV710NTQ-S5TR-S	Production	SOT23-5	Watchdog with Enable Control	STWD100	Generic Components
Reset ICs	TPV830816Q-S6TR-S	Production	SOT23-6	Supervisory Circuit with Programmable Reset Delay	TPS3808Q	Generic Components
Reset ICs	TPV830830Q-S6TR-S	Production	SOT23-6	Supervisory Circuit with Programmable Reset Delay	TPS3808Q	Generic Components
Reset ICs	TPV8308ADQ-S6TR-S	Production	SOT23-6	Supervisory Circuit with Programmable Reset Delay	TPS3808Q	Generic Components
Reset ICs	TPV8368SAQ-S6TR-S	Production	SOT23-6	High Voltage Sense and Low IQ Supervisory with Programmable Delay	R3121N030E-TR-KE	Generic Components
Reset ICs	TPV8368SZQ-S5TR-S	Production	SOT23-5	High Voltage Sense and Low IQ Supervisory with Programmable Delay	R3121N030E-TR-KE	Generic Components
Reset ICs with Watchdog	TPV710NWQ-S5TR-S	Production	SOT23-5	Watchdog with Enable Control	STWD100	Generic Components
Logic & Voltage Translation						
Voltage Translation	TPT20104Q-TS2R-S	Production	TSSOP14	4 bit Bidirectional Level Shifter, 80Mbps, Open-drain and Push-pull	TXS0104	Generic Components
Voltage Translation	TPT20108Q-TS4R-S	Production	TSSOP20	8 bit Bidirectional Level Shifter, 80Mbps, Open-drain and Push-pull	TXS0108	Generic Components

Automotive Applications Solutions

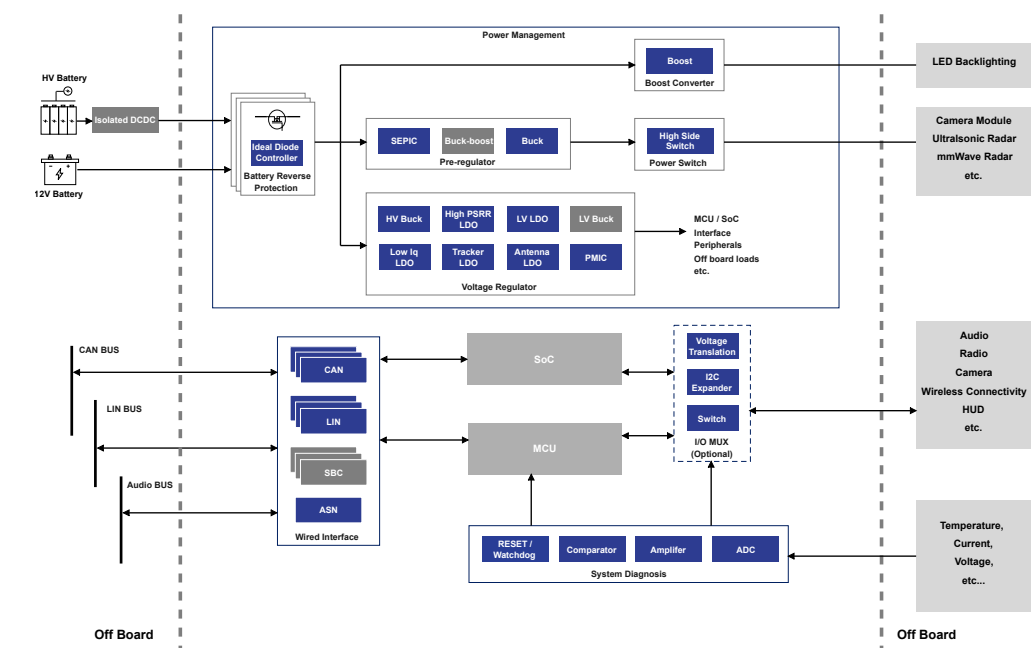
T-Box

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.



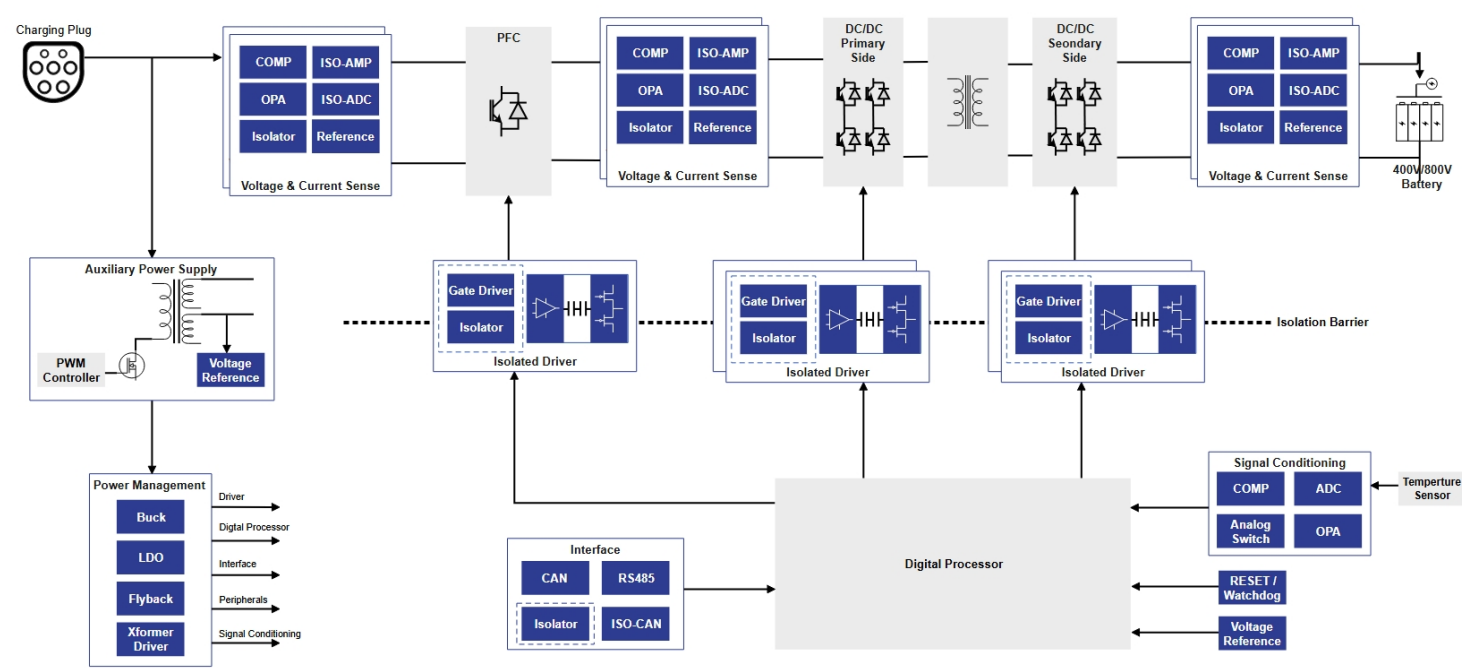
Infotainment

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.



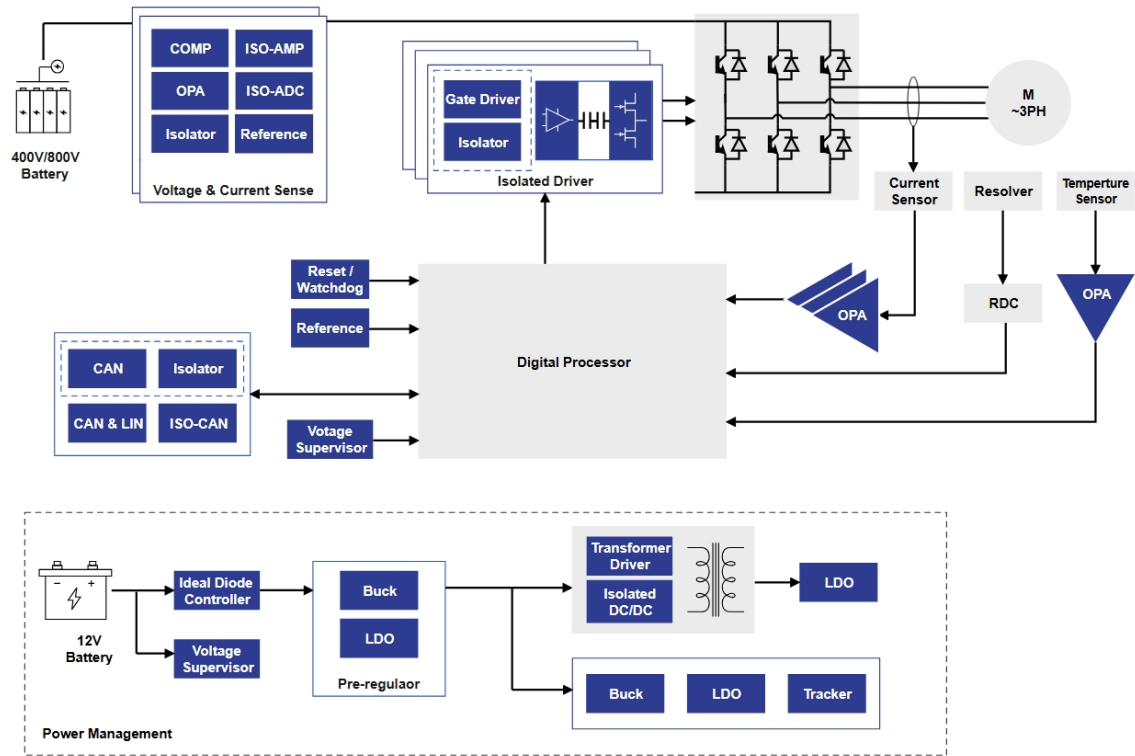
On-board Charger (OBC)

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.



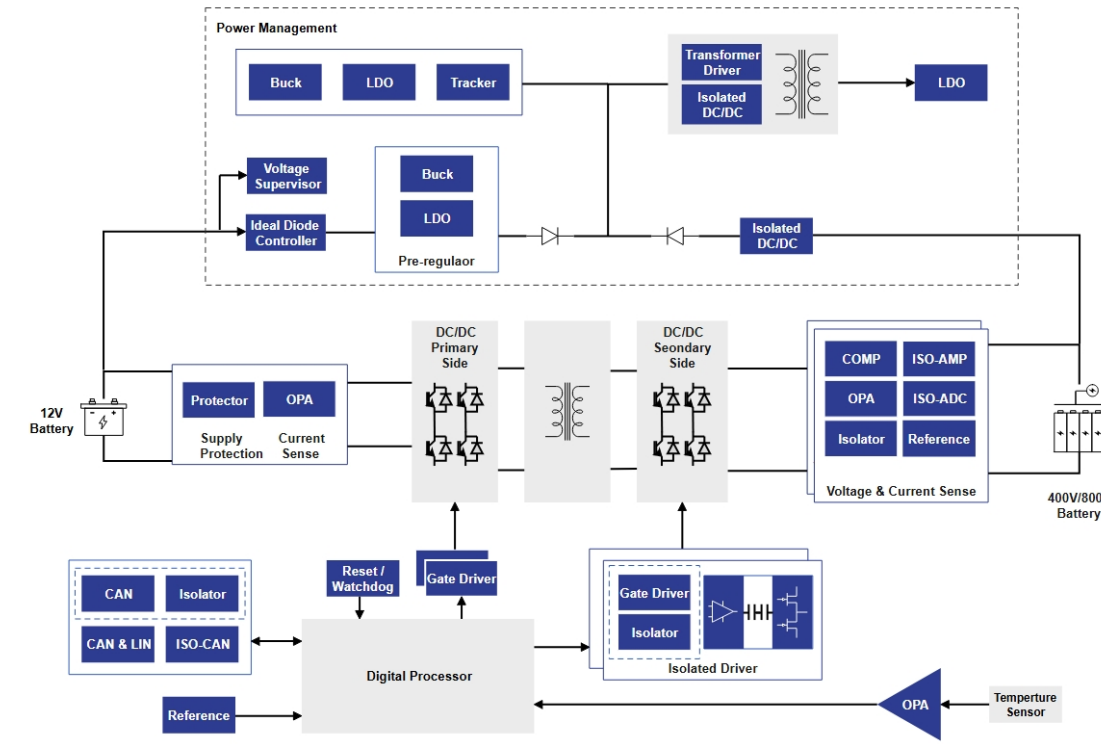
Traction Inverter

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.



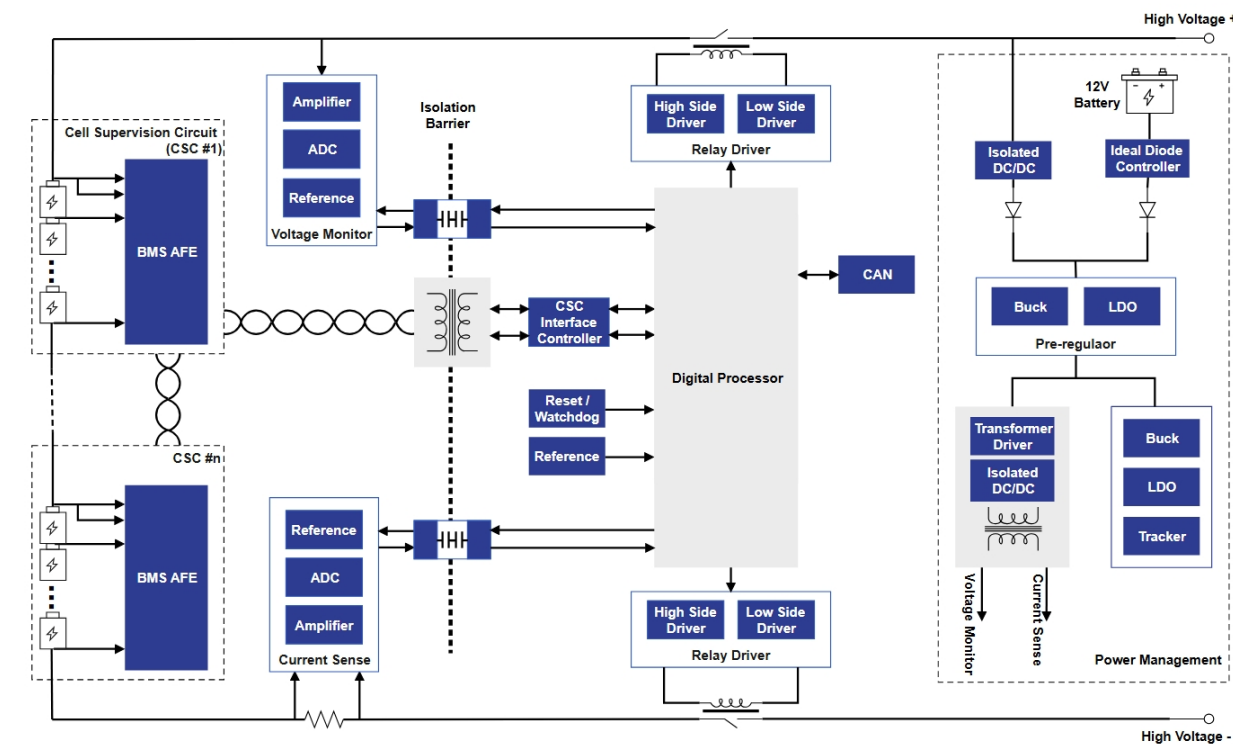
HV/LV DCDC

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.



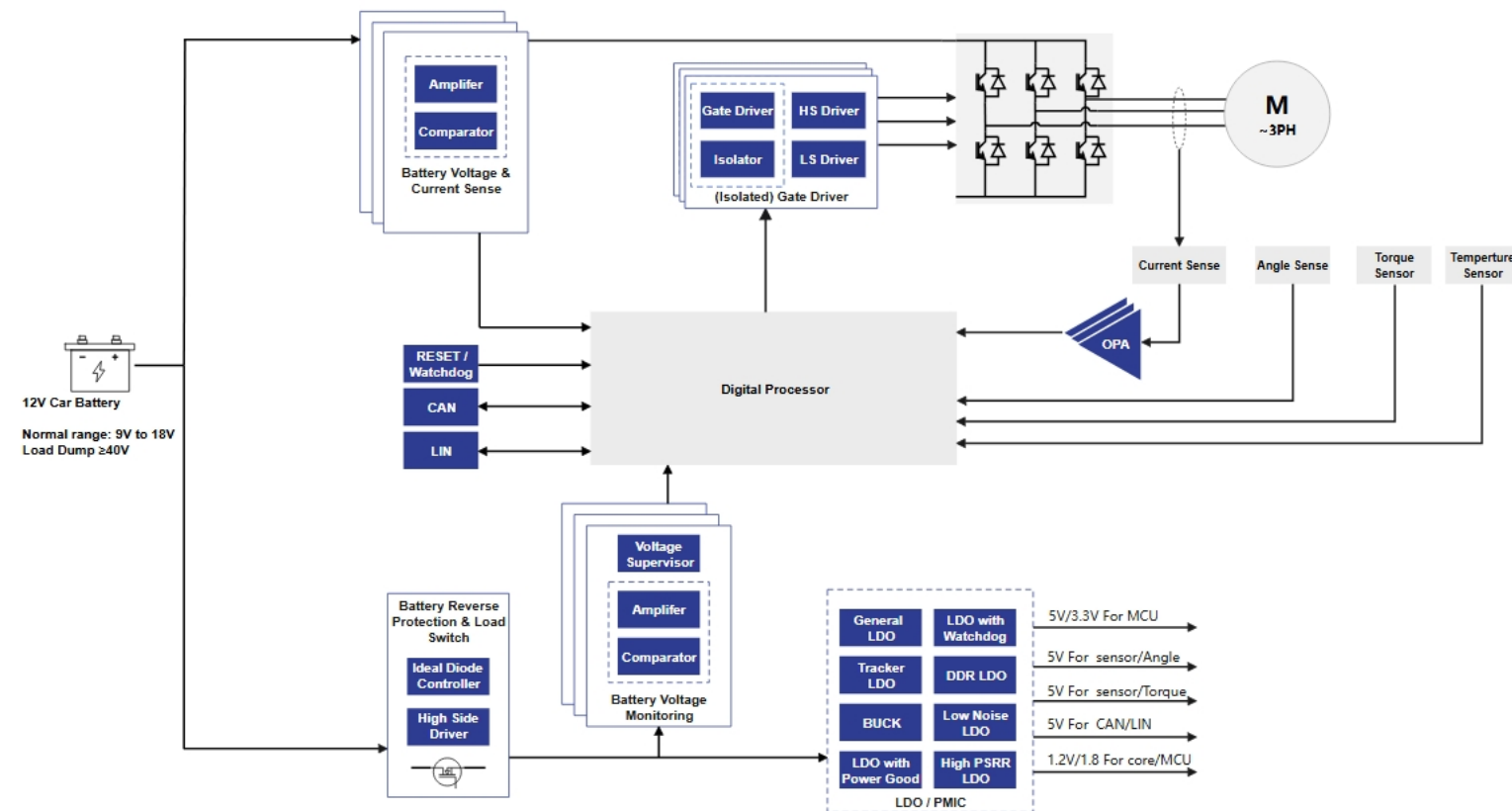
Automotive BMS

The vehicle power battery is the power source for electric vehicles. It has a big 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.



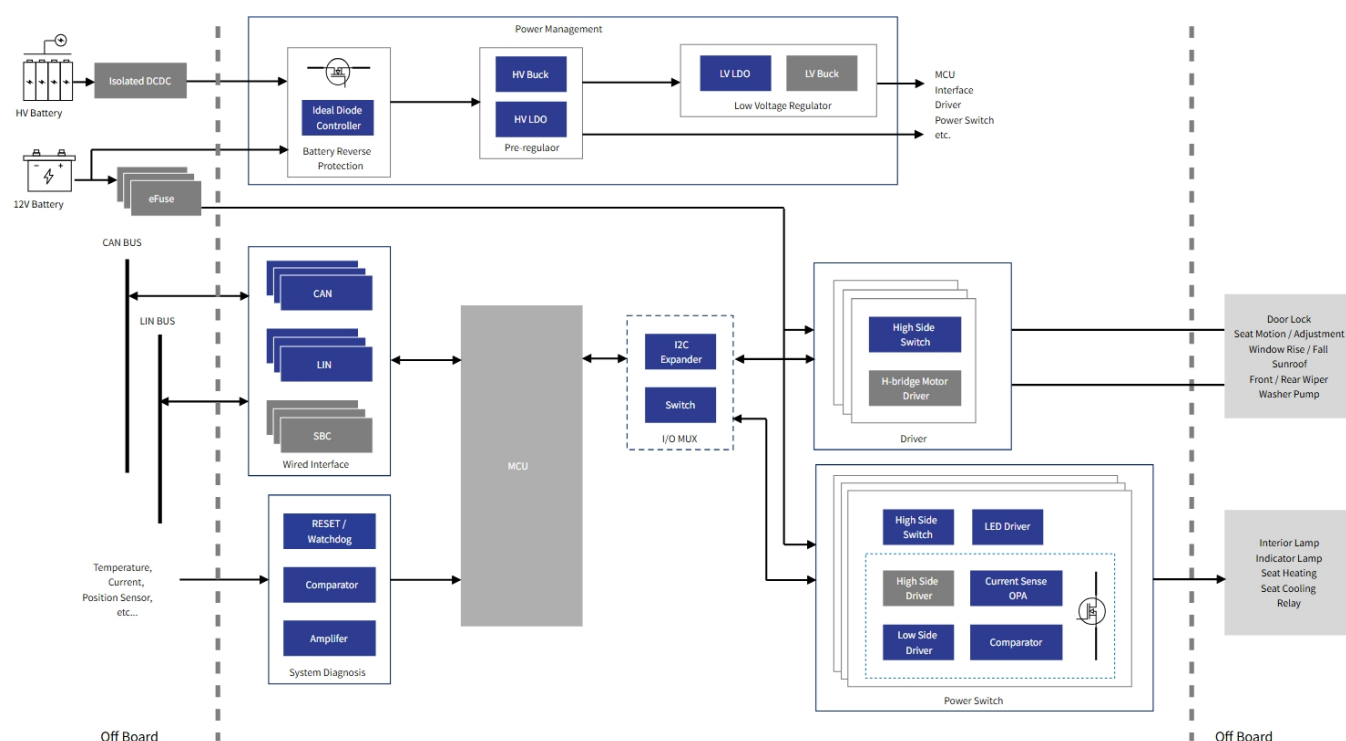
Electric Power Steering (EPS)

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.



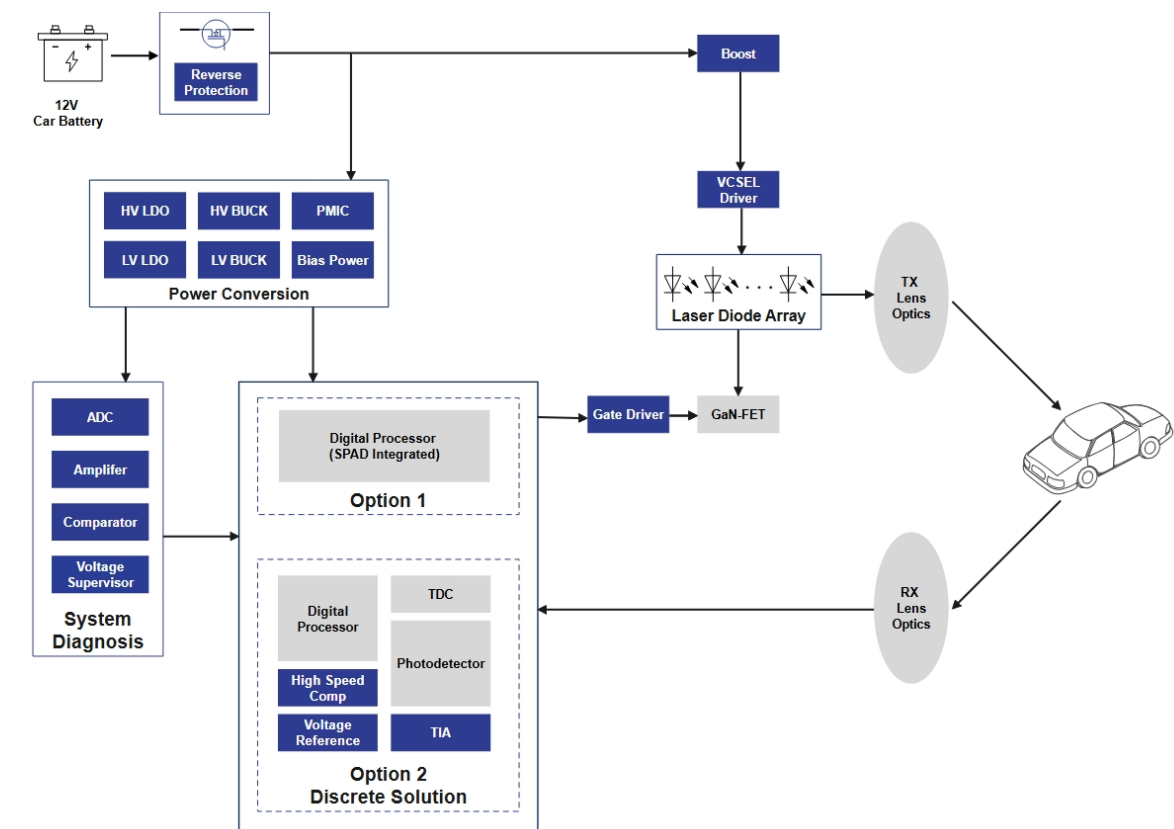
Body Domain Controller

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.

