

- Analog Signal Chain
- Power Management

# Devices To Design

Analog Signal Chain - Interface

## TPT480

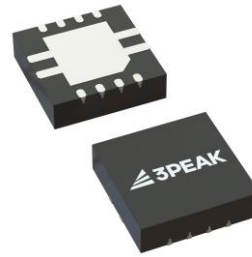
Available in DFN3X3-8, SOP8

### Full Duplex RS-485 Transceivers

3.0V ~ 5.5V IEC61000 ESD Protected TRX

#### Features:

- Supply voltage: 3.0V ~ 5.5V
- Input Common-mode Range: -7V ~ +12V
- Data Rate: 32Mbps, up to 256 Nodes on a Bus (1/8-unit load)
- Meets Full Duplex EIA-485 Standard
- Hot Plug Circuitry - Tx Rx Outputs Remain Three State During Power up/down
- Full Fail-safe Receiver (Open, Short, Terminated)
- Bus-Pin Protection:
  - ±20kV HBM ESD
  - ±12kV IEC61000-4-2 Contact Discharge
  - ±15kV IEC61000-4-2 Air Discharge



#### Applications:

- Industrial Control
- Grid Infrastructure
- Video Surveillance
- Communication Infrastructure

Related Parts: TPT482

TPT480 Quick Links

[Product Page](#) | [Datasheet](#) | [Buy on DigiKey](#)

Available in DFN3X3-10

## TPS05P50

Power Management - eFuses

#### Applications:

- Hot swap Protection
- HDD and SSD Driver Card
- PCIe Cards
- Server Fan Power Supply

Related Parts: TPS14P50

TPS05P50 Quick Links

[Product Page](#) | [Datasheet](#)



### eFuse Protection Switch

5A eFuse w/ Inrush Control & Voltage Clamp

#### Features:

- 6.1V Over-Voltage Clamp Protection
- 27mΩ Low Turn-On Resistance
- 5A Maximum Continuous Current
  - 2A to 5A Adjustable Current Limit
  - ±15% Adjustable Current Limit Accuracy
- Adjustable Output Voltage Slew Rate & Undervoltage Lock Out
- Integrated Inrush Control
- Protection:
  - Over-Current Protection
  - Short-to-Ground Protection
  - Over-Temperature Protection

Analog Signal Chain - Amplifiers

## TPA191

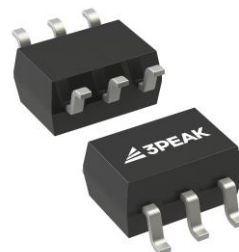
Available in SOT363

### Current Sense Amplifier

Zero-Drift, Bi-Directional, Rail-to-Rail Output

#### Features:

- Voltage Offset:
  - ±100 μV (Max) at VCM = 2.75V
  - ±250 μV (Max) at VCM = 12V
- Wide Common-Mode Voltage: -0.3V to +36V
- Supply Voltage: 2.7V to 36V
- Accuracy and Zero-Drift Performance
  - ±1% Gain Error (Max over temperature)
  - 0.2μV/°C Offset Drift (Typ), 10ppm/°C Gain Drift (Max)
- Multiple Fixed Gain Options
- Low Supply Current: 80μA (Typ)
- Rail-to-Rail Output



#### Applications:

- Current Sensing (High-Side/Low-Side)
- Battery Charger
- Power Management
- Wireless Charger
- Telecom Equipment

TPA191 Quick Links

[Product Page](#) | [Datasheet](#) | [Buy on DigiKey](#)

- Analog Signal Chain
- Power Management

Want to connect with 3PEAK or get product samples? **Contact our teams!**

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Power Management – LDO

## TPL8020

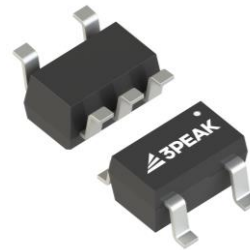
Available in SOT23-5

### Low Quiescent Current LDO

24V Input Voltage, 200mA Output Current

**Features:**

- 6V to 24V Input Voltage, Fixed 5V Output Voltage
- $\pm 2\%$  Output Accuracy over Line/Load Regulation & Operating Temp Range
- 4.2 $\mu$ A Low Quiescent Current
- 200mA Maximum Output Current
- 180mV Typically Dropout Voltage at 50mA
- PSRR:
  - 60dB at 1kHz
  - 56dB at 1 kHz
- Stable with a Minimum 2.2- $\mu$ F Ceramic Capacitor
- Built-in Soft Start Control



**Applications:**

- Battery-Powered Handheld Devices
- POS and Power Tools
- Meters and Smoke Detector
- Industrial Control
- Low Power Wireless and IoT Modules

[TPL8020 Quick Links](#)

[Product Page](#) | [Datasheet](#) | [Buy on DigiKey](#)

Available in DFN3X3-8, SOP8

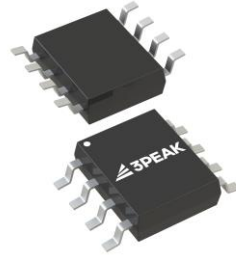
## TPT1051HV

Analog Signal Chain - Interface

**Applications:**

- Devices Supporting Highly Loaded CAN Networks
- Field Industrial Automation
- Sensor and Driver Systems
- Building, Security Control Systems
- Energy Storage Systems

**Related Parts:** TPT1051H



### High-Speed CAN FD Transceiver

$\pm 70V$  Bus Fault Protection w/ Silent Mode

**Features:**

- Meets ISO 11898-2:2016, SAE J2284-1 to SAE J2284-5 Physical Layer Standards
- Supports CAN FD and Data Rating up to 5 Mbps
- Short Propagation Delay Times and Fast Loop Times
- 5V Power Supply, I/O Voltage Range Supports 2.8V to 5.5V MCU Interface
- Ideal Passive Behavior to CAN Bus when Unpowered
- Common-Mode Input Voltage:  $\pm 30V$
- Protection Feature:
  - IEC 61000-4-2 ESD Protection up to  $\pm 15kV$
  - Bus Fault Protection:  $\pm 70V$
  - VCC and VIO (V variants only) Under-voltage Protection

[TPT1051HV Quick Links](#)

[Product Page](#) | [Datasheet](#) | [Buy on DigiKey](#)

Power Management – Motor Drivers

## TPM6501

Available in SOT23-5

### 1A Push-Pull Transformer Driver

Automotive AEC-Q100, Low-Noise, Low EMI

**Features:**

- Low-Side Center-Tapped Transformer Driver
- Automotive AEC-Q100 Grade-1 (TPM6501xQ only)
  - Low-Noise, Low EMI with Spread Spectrum
- Support 2.25-V to 5.5-V Supply with 1-A Primary Side Current
- Soft-Start and Current Limit Protection
- Slew Rate and Switching Frequency Optimized for EMC
- Over-Temperature Protection



**Applications:**

Isolated Power Supply for:

- Battery Monitor Systems
- Interface Drivers
- Industrial Application
- Gate Drivers

[TPM6501 Quick Links](#)

[Product Page](#) | [Datasheet](#)

### 3PEAK 2024 Product Newsletter Part Summary:

Part Series	Product Description	Product Type	Quality Grade	Datasheet	Buy On DigiKey
<b>TPL8032</b>	IC REG LINEAR 3.3V 300mA	LDO	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPR50</b>	IC VREF SERIES 2.5V .05%	REF	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPT1042</b>	IC TRANSCEIVER 1/1	CAN	Automotive	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPA9151</b>	IC VOLTAGE DIFFERENCE AMP	DIFF AMP	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPC5180</b>	IC ADC 18BIT 8 CH SAR	ADC	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPQ05100</b>	IC REG BOOST ADJ 600mA	BOOST	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPL910Q</b>	IC REG LINEAR ADJ 1A	LDO	Automotive	<a href="#">Link</a>	Contact Sales
<b>TPA8001</b>	IC OPAMP ISOLATION 1 CIR	ISO AMP	Automotive	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPAFE411</b>	IC HALL SENSOR AFE	HALL SENSOR	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPT1021Q</b>	IC TRANSCEIVER LIN	LIN	Automotive	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPA5581</b>	IC OPAMP ZERO-DRIFT 1 CIR	OPA	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPAFEA008</b>	IC VOLTAGE/CURRENT DAC/ADC 4 CH	AFE	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPR8601</b>	RES ARRAY 4 RES 10K OHM	RES	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPE15017</b>	IC POE FLYBACK CONVERTER	POE DCDC	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPA5511</b>	IC OPAMP ZERO-DRIFT 1 CIR	OPA	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPC5120Q</b>	IC ADC 12BIT 16 CH SAR	ADC	Automotive	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPA2031Q</b>	IC COMPARATOR GEN PUR 1	COMP	Automotive	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPH2861Q</b>	IC OPAMP 8GHZ 1 CIR	OPA	Automotive	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPC5161</b>	IC ADC 16BIT 8 CH SAR	ADC	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPM8860</b>	IC LOW SIDE DRIVER 48V	STEPPER	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPT4032</b>	IC RECEIVER 0/4	RS485	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPA8101</b>	IC DELTA-SIGMA MODULATOR	ISO AMP	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPC2160</b>	IC 16-BIT HIGH ACCURACY DAC	DAC	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPM8803</b>	IC LOW SIDE DRIVER 48V 3A	STEPPER	Industrial	<a href="#">Link</a>	Contact Sales
<b>TPA2296T</b>	IC OPAMP CURRENT SENSE	CS AMP	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPT1255</b>	IC TRANSCEIVER CAN	CAN	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPT7741F</b>	DGTL ISO 3750VRMS 4CH	ISO	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPP60506</b>	IC DCDC STEP-DOWN CONVERTER	BUCK	Industrial	<a href="#">Link</a>	Available soon!
<b>TPM23513</b>	IC ISO HS DRIVER	ISO	Industrial	<a href="#">Link</a>	Available soon!
<b>TPT3243</b>	IC TRANSCEIVER 2/2	RS232	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPT480</b>	IC Transceiver 1/1 8-DFN	RS485	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPA191</b>	IC OPAMP Current Sense 1 CIR SC70	CSAMP	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPS05P50</b>	IC EFUSE SWITCH 10-DFN	EFUSE	Industrial	<a href="#">Link</a>	Available soon!
<b>TPT1051</b>	IC TRANSCEIVER CAN 8-DFN	CAN	Industrial	<a href="#">Link</a>	<a href="#">Link</a>
<b>TPM6501A</b>	IC TRANS DRIVER SOT23-5	STEPPER	Industrial	<a href="#">Link</a>	Available soon!
<b>TPL8020</b>	IC REG LINEAR 5V 200mA SOT23-5	HVLDO	Industrial	<a href="#">Link</a>	<a href="#">Link</a>