

- Analog Signal Chain
- Power Management
- Embedded Processors

Devices To Design

Analog Signal Chain - Converters

TPC5161

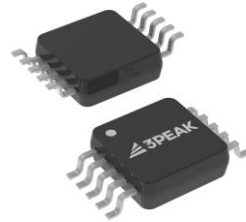
Available in MSOP10

16 Bit SAR ADC

Supports Unipolar, Pseudo Differential Input

Features:

- 16bit SAR ADC without zero latency at 600 KSPS
- Analog input 0V to VREF, External VREF 2.5V to VDD
- High Linearity
 - INL: ± 1.5 LSB typical
 - DNL: ± 0.5 LSB typical
 - THD: -102 dB at 1kHz
- High dynamic range and noise performance
 - SNR: 89.9dB at 1kHz
 - Dynamic range: 90dB at 1kHz
- Serial interface SPI compatible
- Daisy-chain supported



Applications:

- Data Acquisition
- Instruments
- Automated Test Equipment
- Industry Measurement and Control
- Medical Equipment

TPC5161 Quick Links

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

Available in ETSSOP16

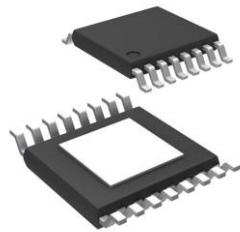
TPM8860

Power Management - Drivers

Applications:

- Relays, Solenoids, Unipolar Stepper Motors
- Electric Expansion Valves, Linear Valves
- LEDs and Heaters
- PLC Digital Outputs
- Electromagnetic Loads

Related Parts: TPM8866



Low-side Driver Array

48V, 8-Ch, Driver w/ Protection & Diagnostics

Features:

- 500m Ω Low-RDS (ON) with Maximum 1.5A Driver Capability
- Integrated Free-wheeling Diodes for Inductive Loads
- Parallel Channel Driving Capability
- 10MHz High-speed 16-bit Shift Register Interface
 - Input Noise Filtering with Daisy Chain Communication
- Diagnostics and Protection:
 - Power On Reset
 - Over-Current Protection
 - Short-Circuit Protection
 - Over-Temperature Protection
 - Open-drain Fault Alarm

TPM8860 Quick Links

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

Analog Signal Chain - Interface

TPT4032

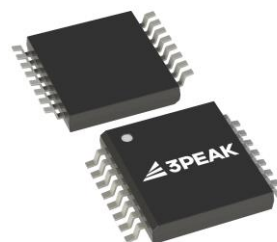
Available in SOP16, TSSOP16

RS422 Receiver

High Speed Quad Channel Differential Receiver

Features:

- High speed, up to 50Mbps data rate, and tPLH = tPHL = 17ns typical
- Low pulse distortion, tsk(p) = 0.7ns typical
- $-7V \sim +12V$ Common-Mode Range With $\pm 200mV$ sensitivity
- Input Hysteresis: 40 mV typical
- Wide power supply voltage 3.0V to 5.5V
- Bus-Pin Protection:
 - ± 18 kV HBM protection
 - ± 10 kV IEC-Contact ESD
 - ± 15 kV IEC-Air Charge ESD



Applications:

- Field Transmitters: Temperature and Pressure Sensors
- Motor Controller
- Position Encoder Systems
- Factory Automation
- Industrial Control Networks

TPT4032 Quick Links

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

- Analog Signal Chain
- Power Management
- Embedded Processors

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Analog Signal Chain – Special Function

TPA8101

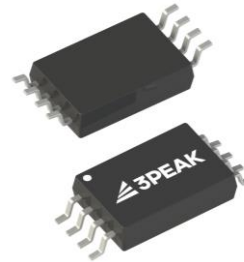
Available in WSOP8, TSSOP8

Applications:

- Industrial Automation
- Motor Control
- Power Supplies

Related Parts:

- TPA8000, TPA8003



[TPA8101 Quick Links](#)

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

Isolated Delta-Sigma Modulator

5000VRMS Isolation, Low Offset and Gain Error

Features:

- CMTI: 100kV/μs
- 5000VRMS Isolation Rating per UL 1577
- Input Voltage Range: ±250mV
- Very Low Offset Error: Maximum 150μV at 25°C
- Very Low Gain Error: 0.15% Maximum at 25°C
- System-level Diagnostic Features
- Wide Temperature Range: -40°C to +125°C

Available in SOP8

TPC2160

Analog Signal Chain - Converter

Precision DAC

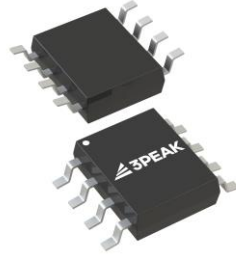
16-Bit, 1MSPS, Low Noise, R-2R Architecture

Applications:

- Automatic Test Equipment
- Industrial Process Control
- Data Acquisition Systems

Related Parts:

- TPC2161, TPC2161M



Features:

- Full 16-Bit Performance
- Up to 1MSPS
- 2.7-V – 5.5-V Single-Supply Operation
- High Accuracy: INL 1LSB
- Fast Settling Speed: 1 μs
- 10-nV/√Hz Output Noise Density
- SPI Compatible Interface
- Power-On Reset to 0 V
- Low Glitch: 10 nV-sec

[TPC2160 Quick Links](#)

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

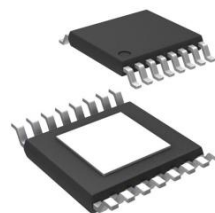
Power Management - Drivers

TPM8803

Available in ETSSOP16

Applications:

- Relays, Solenoids, Unipolar Stepper Motors
- Electric Expansion Valves, Linear Valves
- LEDs and Heaters
- PLC Digital Outputs
- Electromagnetic Loads



[TPM8803 Quick Links](#)

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

Low-side Driver Array

48V, 4-Ch, 3A, Driver w/ Protection & Fault Flag

Features:

- 40-V Max Recommended Operating Voltage, 48-V Absolute Max Voltage
- 250-mΩ Low-RDS(ON) with Maximum 3-A Driver Capability
- Integrated Free-wheeling Diodes for Inductive Loads
- Parallel Channel Driving Capability
- Dual Supply VM and VCLAMP for Inductive Loads
- Protection:
 - Power On Reset
 - Over-Current Protection
 - Short-Circuit Protection
 - Over-Temperature Protection
 - Open-drain Fault Alarm

3PEAK 2024 Product Newsletter Part Summary:

Part Series	Product Description	Package	Quality	Datasheet	Buy On DigiKey
TPA191	Current Sensing Amplifier	SOT363	Industrial	Link	Link
TPL8032	Linear Voltage Regulator IC Fixed Output	SOT23-5	Industrial	Link	Link
TPL910Q	Linear Voltage Regulator IC Positive Adjustable 1 Output	DFN3X3-8	Automotive	Link	Contact Sales
TPR50	Low-Drift Precision Fixed Voltage Reference	SOP8	Industrial	Link	Link
TPT1042	Automotive grade, High-Speed CAN Transceiver IC, standby mode	DFN3X3-8	Automotive	Link	Link
TPA8001	Isolated Amplifier	WSOP8	Automotive	Link	Link
TPA9151	Difference Amplifier	SOP8	Industrial	Link	Link
TPAFE411	Hall Sensor Signal Conditioning	QFN4X4-20	Industrial	Link	Link
TPC5180	18 Bit 300KSPS Analog to Digital Converter 8 Input SAR	MSOP10	Industrial	Link	Link
TPQ05100	Step-Up Synchronous Regulator	WLCSP	Industrial	Link	Link
TPT1021Q	High-Speed LIN Transceiver IC, 40V LIN BUS	SOP8	Automotive	Link	Link
TPA5582	Precision Operational Amplifier, 2 Circuit	MSOP8	Industrial	Link	Link
TPAFEA008	Optical EML driver with 4 channel VDAC and 4 channel IDAC	WLCSP	Industrial	Link	Link
TPA5511	Low-Dropout Linear Regulator 8-ESOP	DFN2X2-8	Industrial	Link	Link
TPC5120Q	12 Bit Analog to Digital Converter 16 Input SAR	TSSOP38	Automotive	Link	Link
TPA2031	General-Purpose Comparator, Push-Pull, 1 Circuit	SOT23-5	Automotive	Link	Link
TPH2861Q	High Speed Operational Amplifier, 2 Circuit	DFN2X2-8	Automotive	Link	Link
TPE15017	PoE PD Solution with PSR or SSR Active Clamp Flyback Converter	QFN3X4-19	Industrial	Link	Link
TPR8601A	Matched Resistor Network, 8-EMSOP	EMSOP8	Industrial	Link	Link
TPC5161	16 Bit 600KSPS Analog to Digital Converter 8 Input SAR 10-MSOP	MSOP10	Industrial	Link	Link
TPM8860	IC LOW SIDE DRIVER 48v 16-ETSSOP	ETSSOP16	Industrial	Link	Link
TPT4032	0/4 Receiver RS422, RS423 16-SOP	SOP16	Industrial	Link	Link
TPA8101	Isolated Modulator, 8-WSOP	WSOP8	Industrial	Link	Link
TPC2160	16-Bit High Accuracy DAC, SOP8	SOP8	Industrial	Link	Link
TPM8803	IC LOW SIDE DRIVER 48v 16-ETSSOP	ETSSOP16	Industrial	Link	Available soon!