

- Analog Signal Chain
- Power Management
- Embedded Processors

Devices To Design

Analog Signal Chain - Amplifiers

TPH2861Q

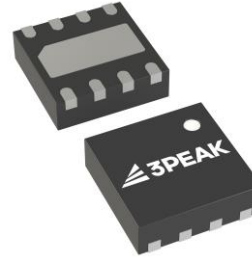
Available in DFN2X2-8

High-speed Op Amp

5V, G=7 Stable, 8GHz, Slew Rate: 2700 V/ μ s

Features:

- AEC-Q100 Automotive Qualified, T_A : -40°C to $+125^{\circ}\text{C}$
- Supply Voltage: 3.3V to 5.25V
- High Gain Bandwidth Product: 8GHz
- High Slew Rate: 2700 V/ μ s
- Offset Voltage: ± 1.2 mV Maximum at 25°C
- Stable when Gain > 7 V/V
- Quiescent Current: 19 mA
- Overload Recovery: 2.8 ns
- Package: 8-pin DFN



Applications:

- Automotive Lidar
- Lab Equipment
- Automated Test Equipment
- OTDR
- Laser Distance Meter

TPH2861Q Quick Links

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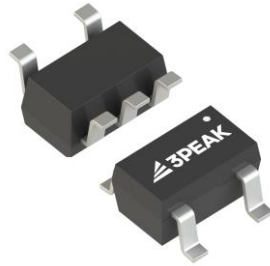
Available in SOT23-5 & SC70-5

TPA5511

Analog Signal Chain - Amplifiers

Applications:

- Gas Detection
- Battery Current Sensing
- Portable Medical Equipment
- Portable Glucose Monitors
- Portable RFID Readers and Tags



Related Parts: TPA5512 (2 channel)

TPA5511 Quick Links

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

Precision Op Amp

5V, 3.3V, 9kHz, Zero-Drift, Nanopower

Features:

- Low Offset Voltage: $\pm 30\mu\text{V}$ Maximum
- Zero Drift: $\pm 0.0125\mu\text{V}/^{\circ}\text{C}$
- Gain Bandwidth Product: 9kHz
- Slew Rate: 3V/ms
- Supply Voltage: 1.7V to 3.6V
- Common-Mode Rejection Ratio 95dB to 125dB
- Rail-to-Rail Input and Output
- PSRR 100dB

Analog Signal Chain - Linear

TPA2031Q

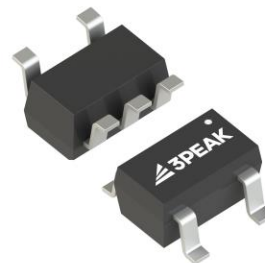
Available in SOT23-5

Automotive Comparator

55ns Comparator with Push Pull Output

Features:

- AEC-Q100 Automotive Qualified, T_A : -40°C to $+125^{\circ}\text{C}$
- Power Supply Voltage: 1.8V to 5.5V
- Low Supply Current: 350 μ A per channel
- Propagation Delay: 55ns
- Offset Voltage: ± 6 mV
- Input Common-Mode Range Extends 100 mV
- Push-Pull Output



Applications:

- Motor Control
- On-Board Charger
- Precision Signal Conditioning
- Battery Management System

TPA2031Q Quick Links

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[See our list of Global Distributors](#)

Analog Signal Chain – Special Function

TPR8601A

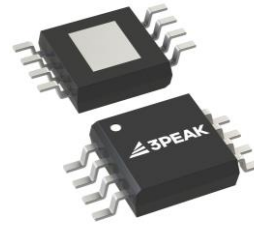
Available in EMSOP8

Matched Resistor Network

Matched 0.01% resistor network with 4 independent resistors

Features:

- 0.01% Matching at -40°C to 125°C
- Matching Temperature Drift: 0.2ppm/°C
- Operating Voltage: ±60V
- Operation Temperature Range: -40°C to 125°C



Applications:

- Instrumentation
- Industrial Control
- Precision Amplifier Circuit
- Precision Divider for Voltage Reference

Related Parts:

- TPR8600, TPR8602, TPR8603

TPR8601A Quick Links

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

Available in TSSOP-38

TPC5120Q

Analog Signal Chain - Converter

Applications:

- Automotive and Transportation
- Status Monitoring
- Data Acquisition Systems



Precision ADC

12-Bit, 16-Channel, 1-MSPS SAR ADC

Features:

- AEC-Q100 Automotive Grade 1 Qualified, T_A: -40°C to +125°C
- 16-Channel 12-Bit SAR ADC
 - 0 to 2.5V and 0 to 5V range
 - Programmable Out-of-Range Alarms 2 per channel
 - 1MHz Sample Rate Serial Devices
 - 2.7 to 5.25V Analog Supply Range
 - 1.7 to 5.25V I/O Supply Range
- General Purpose I/O Ports (GPIOs)
- Low-Power SPI-Compatible Serial Interface
- Compact TSSOP-38 Package
- 0 to V_{ref} or 0 to 2 V_{ref} software selectable for the analog range

TPC5120Q Quick Links

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

Power Management

TPE15017

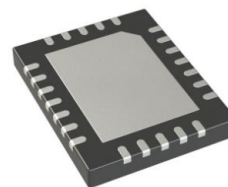
Available in QFN3x4-19

PoE PD Solution

Integrated PD interface & flyback converter

Features:

- 100V 0.56-Ω PD Input MOSFET
- 1.5A Switching Current Limit
- Frequency Foldback during Startup and Protection
- EMI Reduction with Frequency Dithering
- Hiccup OLP, OVP, and OTP Protection
- Active Clamp Primary-Side Regulated (PSR) Flyback without Aux-winding
- Active Clamp Secondary-Side Regulated (SSR) Flyback through Opto-coupler
- Programmable Soft-Start Time
- Automatic Light Load Power Maintain Signature
- Compatible with IEEE 802.3af Specifications



Applications:

- IEEE 802.3af-Compliant Devices
- Security Camera
- VoIP Phones
- WLAN Access Points
- IoT Devices

TPE15017 Quick Links

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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	Available soon!
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