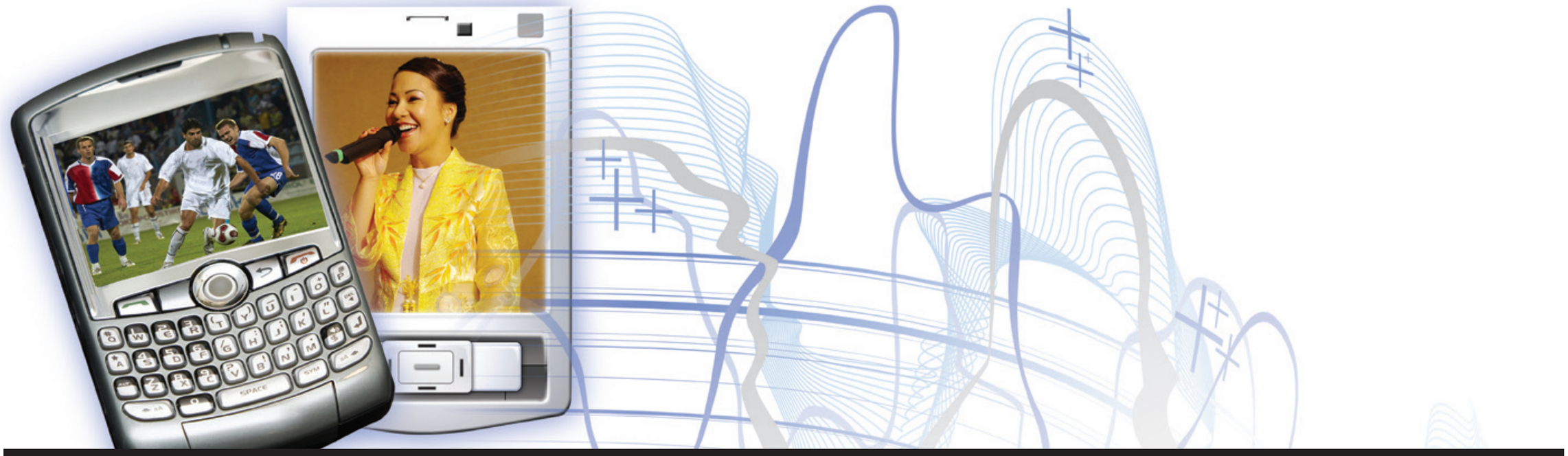

High-Performance Analog Solutions for Handsets

Texas Instruments provides a broad and deep portfolio of high-performance products, applications knowledge and local technical support to help get you to market faster with a winning design. If you want the most reliable, scalable and power-efficient solutions for portable electronics, then look no further than TI.

Audio Power Amplifier - Speaker

Device	Description
TPA2006D1	1.45-W Mono, Fully Differential, Filter-Free Class-D Audio Amplifier
TPA2010D1	2.5-W Mono, Fully Differential, Filter-Free Class-D Audio Amplifier in WCSP
TPA2012D2	2.1-W Stereo Class-D Audio Amplifier in WCSP
TPA2013D1	2.7-W Mono Audio Class-D Amplifier with Integrated Boost Converter
TPA6204A1	1.7-W Mono Fully Differential, Class-AB Audio Amplifier
TPA6205A1	1.25-W Mono, Fully Differential, Class-AB Audio Amplifier

Audio Codec and DAC

Device	Description
TLV320AIC31/2/3	Low-Power Stereo Codec with HP/Speaker Amps and 3D Effects
TLV320AIC3104/5/6	Low-Power Stereo Codec with HP Amp and Enhanced Digital Effects
TLV320AIC34	Low-Power 4-Channel Audio Codec with Dual Audio Buses
PCM3793A/4A	Very Low-Power Stereo Codec with HP/Class-D Speaker Amplifier, Notch Filters, ALC and 3D Effects
TLV320DAC32	Low-Power Stereo DAC with 4 Outputs, HP/Speaker Amps and 3D Effects

Audio Power Amplifier - Headphone

Device	Description
TPA4411	80-mW DirectPath™ Stereo Headphone Driver
TPA6130A2	138-mW DirectPath™ Stereo Headphone Amplifier with I2C Volume Control
TPA6100A2	50-mW Ultra-Low Voltage Stereo Headphone Audio Amplifier
TPA6110A2	Stereo Headphone Audio Amplifier

Video and Interface

Device	Description
OPA360/1	3-V Video Amplifier with 6dB Gain and Filter
SN65LVDS301/302	subLVDS 24-Bit RGB Serdes for LCD Modules

Linear and Logic

Device	Description
TXB0102/4	2/4 - Bit Bidirectional Voltage-Level Translator with Auto Direction Sensing and ±15-kV ESD Protection
TS3A24157	0.65Ω Dual SPDT Analog Switch Dual-Channel 2:1 Multiplexer/Demultiplexer
TS3USB30	High-Speed USB 2.0 (480-Mbps) 1:2 Multiplexer/Demultiplexer Switch
TCA6408	Low-Voltage 8-Bit I2C and SMBus I/O Expander
SN74AUPIGxx	Advanced Ultra-Low Power CMOS Single-Gate Logic

Multi-Channel Power Management

Device	Description
TPS65020	6-Channel Power Mgmt IC with I2C for Li-Ion Powered Systems
TPS65053	5-Channel Power Mgmt IC with GPIO Control for Li-Ion Powered Systems
TPS65820	9-Channel Fully Integrated Power Mgmt IC with Li-Ion Charger for Li-Ion Powered Systems
Partner Products	
TPS65030	Power Management IC for USG-OTG in CSP
TUSB6010	USB 2.0 High-Speed On-the-Go Local Bus Interface Bridge Controller

DC/DC Converter and LDO

Device	Description
TPS62270	400-mA, 2.25-MHz Step-Down Converter with Selectable V_{OUT} (2-Level) for DVS
TPS62400	400-mA and 600-mA Dual Output Step-Down Converter with GPIO Interface for DVS
TPS62290	1000-mA Step-Down Converter in 2mm x 2mm SON Package
TPS62356	1000-mA, 3-MHz Step-Down Converter with I2C for Dynamic Voltage Scaling (DVS)
TPS63000	96% Efficient, 1.2-A Buck-Boost Converter in 3 x 3 QFN
TPS71701	150-mA, High-Bandwidth PSRR LDO in 1.5mm x 1.5mm SON
TPS71918-12	2 x 200-mA Dual Output, High PSRR LDO in 2mm x 2mm SON
TPS728185315	200-mA LDO with Dual Switchable Voltage Level for DVS
TPS3808	Low Quiescent Current, Programmable-Delay Supervisory Circuit (SVS)

Battery Management and Authentication

Device	Description
bq24020	1-Cell Li-Ion Fully Integrated Charger for AC/DC Adapter and USB
bq24070	Single-Chip Charge and System Power-Path Management IC
bq26150	CRC-Based Battery Authentication IC
bq27500	System-Side, Impedance Track™ Fuel Gauge for Li-Ion Powered Systems
bq24300	Charger Front End Protection IC with 30-V Max V_{IN} and 5.5-V LDO Output in 2 x 2 QFN
TLV3012	Low Battery Detector with 6µs Comparator and 1.242-V 1% Reference

Touch Screen Controller

Device	Description
TSC2003	4-Wire Touch Screen Controller with I2C Interface
TSC2004	4-Wire Touch Screen Controller with Programmable Pre-Processing, I2C Interface, 1.2V to 3.6V in CSP
TSC2005	4-Wire Touch Screen Controller with Programmable Pre-Processing, SPI Interface, 1.6V to 3.6V in CSP
TSC2007	4-Wire Touch Screen Controller with Pre-Processing, I2C Interface, 1.2V to 3.6V in CSP with Integrated Audio Converters
TSC2100	Programmable 4-Wire Touch Screen Controller with Stereo Audio Codec and Headphone/Speaker Amplifier
TSC2101	Programmable 4-Wire Touch Screen Controller with 6 Audio Inputs, Stereo Audio Codec and Headphone/Speaker Amplifier

OLED and TFT Display Supply

Device	Description
TPS61045	28-V, 0.4-A Switch Boost Converter for OLED
TPS61140	Dual-Output, Single Inductor Boost Converter for OLED Sub- and WLED Main Display
TPS61081	27-V, 1.2-A Switch Boost Converter with Integrated Power Diode
TPS65120	4-Channel Small Form Factor TFT Display Power Supply
TPS65130	Dual ±Output Driver for Active-Matrix OLED Displays

White LED and Xenon Camera Flash

Device	Description
TPS61050	1.2-A High Power White LED Flashlight Driver with I2C
TPS65560	Integrated Photo Flash Charger and IGBT Driver for Xenon Lamps
TCA6507	7-Bit, I2C and SMBus LED Driver with Intensity Control and Shutdown

White LED Backlight Driver

Device	Description
TPS60250	Charge Pump for 7 WLEDs with 2 or 3 Banks and I2C Interface
TPS61161	Inductive Boost Converter for 6-10 White LEDs with Digital or PWM Dimming
TPS61150	Dual-Output, Single Inductor Boost Converter for up to 12 WLEDs
TPS75103	LDO-Based 2 x 2 Bank LED Driver with PWM Brightness Control

For more information, visit **www.ti.com/analogportable**

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