



Product Solutions for Handset Applications

SoftFone® Cellular Terminal Chipsets

SoftFone GSM/GPRS Platforms

Low cost phones: Atlas Integrated Analog and Digital Baseband Processor (AD6720), and Othello-G Radio Transceiver (AD6548)

Basic feature phones: Ares Digital Baseband Processor (AD6758), Stratos-C Analog Baseband Processor (AD6852), and Othello-G Radio Transceiver (AD6548)

High end feature phones: Atlas Integrated Analog and Digital Baseband Processor (AD6720), Othello-G Radio Transceiver (AD6548), and Coprocessor

SoftFone EDGE Platforms

Low cost phones: Monaco 2M/4M Digital Baseband Processor (AD6531/AD6532), Stratos-S Analog Baseband Processor (AD6855), and Othello-E Radio Transceiver

Mid end feature phones: LeMans Digital Baseband Processor (AD6900), Stratos-S Analog Baseband Processor (AD6855), and Othello-E Radio Transceiver (AD6546)

High end feature phones: Monaco 2M Digital Baseband Processor (AD6531), Stratos-S Analog Baseband Processor (AD6855), Othello-E Radio Transceiver (AD6546), and Coprocessor

SoftFone TD-SCDMA 3G TDD/LCR Platforms

Basic phones: Monaco-LCR Digital Baseband Processor (AD6901), Stratos-L Analog Baseband Processor (AD6854), and Othello-W Radio Transceiver (AD6541 and AD6547)

SoftFone W-CDMA Platforms

Basic phones: Monza Digital Baseband Processor (AD6902), Stratos-W Analog Baseband Processor (AD6856), Othello-W Radio Transceiver (AD6541 and AD6547), and Othello-E EDGE Radio Transceiver (AD6546)

Development Tools, Reference Designs, and Turnkey Designs

- *VisualFone®:* Overall name for our development tools
- *Nova:* Hermes-based GPRS feature phone reference platform
- *Mercury:* Atlas-based low cost GSM/GPRS phone reference platform
- *Venus:* Ares-based GPRS multimedia feature phone reference platform
- *Orion:* Monaco-based EDGE basic phone reference platform
- *Mars:* LeMans-based EDGE multimedia feature phone reference platform
- *SoftFone Express (SFX):* Complete phone reference design, including plastics and software

Digital Baseband Processors

GSM/GPRS

- *Athena AD6525/AD6526:* Integrated ARM7 + ADSP218x Processor Core
- *Hermes AD6527/AD6528B/AD6529B:* Integrated ARM7 + ADSP218x Processor Core with USB, SD/MMC, etc.
- *Ares AD6758:* Integrated ARM9 + ADSP218x Processor Core with USB, SD/MMC, etc.
- *Atlas AD6720:* Integrated ARM7 + ADSP218x Processor Core with Typhoon Analog Baseband/Power Management all in one package

EDGE

- *Monaco 2M AD6531:* Integrated ARM7 + Blackfin® Processor Core with USB, SD/MMC, etc.
- *Monaco 4M AD6532:* Integrated ARM7 + Blackfin Processor Core with USB, SD/MMC, etc.
- *LeMans AD6900:* Integrated ARM9 + Blackfin Processor Core with USB, SD/MMC, PPI, etc.

TD-SCDMA (3G TDD/LCR)

- *Monaco-LCR AD6901:* Integrated ARM7 + Blackfin Processor Core with USB, SD/MMC, high speed analog baseband interface, etc.

W-CDMA/UMTS 3G

- *Monza AD6902:* Integrated ARM9 + Blackfin Processor Core + W-CDMA logic with USB SD/MMC, high speed analog baseband interface, etc.

Components for All Handset Functions

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Camera

AD5398

- Lens driver for AF
- 1.5 mm × 1.7 mm WLCSP and LFCSP

AD9937/AD9938

- CCD signal generator
- 10-bit, 12 MHz analog-to-digital converter

Input Devices

AD7142

- Capacitance-to-digital converter
- Highly accurate and reliable

AD7877

- Touch screen controller
- LCD noise reduction feature

AD7843/AD7873

- Touch screen digitizer
- 1.4 mW power at 125 kSPS

Temp Sensors

TMP05

- Digital output temp sensor
- ±0.5°C accurate PWM

TMP36

- Voltage output temp sensor
- 5-lead, 2.8 mm × 2.9 mm SOT-23

ADT7302

- Temp monitoring system
- 2.7 V to 5.5 V supply voltage

ADT75

- Temp monitoring system
- 8-lead, 3.0 mm × 4.9 mm MSOP

TV/Video

ADV7179

- NTSC/PAL video encoder
- 40-lead, 6 mm × 6 mm LFCSP

ADV7390

- Integrated TV-out solution
- 32-lead, 5 mm × 5 mm LFCSP

ADV7180

- 10-bit video decoder
- NTSC/PAL/SECAM TV

ADA4850

- Ultralow power video amp
- 15 nA/amplifier $I_{\text{POWERDOWN}}$
- 175 MHz BW, rail-to-rail output

Motion Sensors

ADXL322/ADXL320/ADXL321

- 2-axis accelerometer
- ±2 g/±5 g/±18 g range

ADXL330

- 3-axis accelerometer
- ±2 g range

RF Power Detectors

AD8314

- 45 dB RF detector/controller
- GSM/CDMA/W-CDMA

AD8315

- 50 dB GSM PA controller
- 8-lead, 2 mm × 3 mm LFCSP

AD8361

- 2.5 GHz TruPwr™/rms detector
- CDMA/W-CDMA

AD8311

- 50 dB GSM PA controller
- 6-ball, 1.0 mm × 1.5 mm WLCSP

AD8312

- 50 MHz to 3.5 GHz RF detector
- GSM/CDMA/W-CDMA

ADL5500

- 6 GHz TruPwr/rms detector
- CDMA/W-CDMA, 1 mm × 1 mm WLCSP

ADF4360-x

- Synthesizer/VCO
- Output frequency: 2400 MHz to 2725 MHz

Display Control

ADM8843

- 4 WLED backlight driver
- 88% power efficiency

ADM8845

- Charge pump WLED driver
- ±1% current matching

ADM8832

- Charge pump regulator
- For color TFT LCD

AD5228

- Digital potentiometer
- 1-channel, 32-position

AD5259

- Digital potentiometer
- Nonvolatile, 256-position, I²C®

Power Management

ADP2291

- Single-cell Li-ion battery charger
- 8-lead MSOP and 3 mm × 3 mm LFCSP

ADP1652

- High power LED flash driver
- 500 mA in 3 mm × 3 mm LFCSP, I²C

ADP2101

- 300 mA synchronous dc-to-dc converter

Connectivity

ADG787

- Dual 2:1 USB 1.1 switch
- 1.5 mm × 2.0 mm WLCSP

ADG3241

- SPST USB 2.0 switch
- 6-lead, 1.7 mm × 1.7 mm SOT-66

ADG3242

- 2 × SPST USB 2.0 switch
- 8-lead, 2.8 mm × 2.9 mm SOT-23

ADG3308

- 8-channel, 1.15 V to 5.5 V
- Level translator in WLCSP

Audio Amps and Muxes

AD8541

- Audio mic preamplifier
- 45 μA/amplifier I_{SUPPLY}

AD8692

- Audio mic preamplifier
- 8 nV/√Hz noise, 10 MHz BW

ADG849

- 0.5 Ω, 400 mA SPDT audio switch in 6-lead SC70

ADG836

- 1.65 V to 3.6 V, 2 × SPDT audio switch with $R_{\text{ON}} = 0.5 \Omega$

AD8531

- 250 mA output amplifier
- 3 MHz BW

SSM2211

- 1.5 W audio power amplifier
- Distortion 0.2% THD @ 1 W