Products for Wireless Handset Applications

SoftFone® Cellular Baseband Processors and Chipsets

GSM/GPRS

Basic/Entry-Level: AD6720 SoftFone (Atlas) integrated analog and digital baseband processor with power management

Basic Featurephone: AD6721 SoftFone (Atlas-2H) integrated analog and digital baseband processor with power management, stereo audio, and expanded peripheral interfaces (USB, SD/MMC, etc.)

Multimedia Featurephone: AD6722 SoftFone (Dione) integrated analog and digital baseband processor with power management, stereo audio, expanded peripheral interfaces (USB, SD/MMC, etc.), and integrated camera interface/image processor

EDGE/GSM/GPRS

Basic/Entry-Level: AD6531/AD6532 SoftFone (Monaco 2M/4M) digital baseband processor plus AD6855 (Stratos-S) analog baseband processor with power management and stereo audio

Featurephone: AD6900 SoftFone (LeMans) digital baseband processor plus AD6855 (Stratos-S) analog baseband processor with power management and stereo audio

UMTS/W-CDMA (3G FDD)

Basic/Entry-Level: AD6902 SoftFone (Monza) digital baseband processor plus AD6856 (Stratos-W) analog baseband processor with power management and stereo audio

TD-SCDMA (3G TDD/LCR)

Basic/Entry-Level (128 kbps): AD6901 SoftFone (Monaco-LCR) digital baseband processor plus AD6857 (Stratos-T) analog baseband processor with power management and stereo audio

Featurephone (384 kbps): AD6903 SoftFone (LeMans-LCR+) digital baseband processor plus AD6857 (Stratos-T) analog baseband processor with power management and stereo audio

OTHELLO® RF TRANSCEIVERS

GSM/GPRS: AD6548 Othello-G 850/900/1800/1900 MHz operation, direct-conversion receiver, integrated VCOs, LDOs, and crystal oscillator

EDGE/GSM/GPRS: AD6546 Othello-E 850/900/1800/1900 MHz operation, direct-conversion receiver, closed-loop polar transmit modulator; integrated VCOs, LDOs, and crystal oscillator

3G W-CDMA/TD-SCDMA: AD6541/AD6547 Othello-W Tx/Rx 1900 MHz/2000 MHz Tx and 2000 MHz/2100 MHz Rx, supports both TDD and FDD operation

Development Tools

VisualFone® Development Systems

- *Anvil 2.0:* Complete evaluation and development system with dual displays supporting all current SoftFone products, with full access to all signals for development and debugging and extensive peripheral interface capability

- *Matrix:* Compact evaluation and demonstration system for chipset evaluation and demonstration. Similar to Anvil system, but with limited access to internal signals and limited peripherals

Reference Platforms (form-factor reference design)

- *GSM/GPRS:* Mercury, based on Atlas (AD6720)
- *EDGE/GSM/GPRS:* Mars, based on LeMans (AD6900)
- *W-CDMA/EDGE:* Jupiter, based on Monza (AD6902)
- *TD-SCDMA/GSM:* DTivy™ series available from Datang Mobile

Software

Complete protocol stack and applications software packages are available from Analog Devices for each platform (TD-SCDMA software provided by Datang Mobile).

Contact your local sales office for details.

ANALOG DEVICES

Sensors and User Input ICs

Capacitive Sensors

- *AD7142/AD7143:* Capacitive touch sensors for keypads, navigation wheels, buttons, and sliders

Touch Screen Controllers

- *AD7877:* Touch screen controller with LCD noise reduction feature
- *AD7843/AD7873:* Touch screen digitizer, 1.4 mW power at 125 kSPS

Motion Sensors

- *ADXL322/ADXL323/ADXL320/ADXL321:* 2-axis accelerometers, ±2 g/±3 g/±5 g/±18 g range
- *ADXL330:* 3-axis accelerometer, ±3 g range

Temperature Sensors

- *ADT75:* Digital-output temperature sensor, 8-lead, 3.0 mm $\times$ 4.9 mm MSOP

RF Power Detectors/Controllers

Logarithmic Response

- *AD8314:* 45 dB RF detector/controller for GSM/CDMA/W-CDMA
- *AD8315:* 50 dB RF detector/controller for GSM/EDGE
- *AD8311:* 50 dB GSM PA controller, 1 mm $\times$ 1.5 mm WLCSP
- *AD8312:* 45 dB RF detector for GSM/CDMA/W-CDMA

TruPwr™ rms Response

- *AD8361:* 30 dB detector for CDMA/W-CDMA
- *ADL5500:* 45 dB detector for CDMA/W-CDMA, 1 mm $\times$ 1 mm WLCSP
- *ADL5501:* 30 dB detector for CDMA/W-CDMA, SC70 package

Power Management ICs

LCD Display Backlight Drivers

- *ADM8843/ADM8845:* Precision LED Drivers for 4 (ADM8843) or 6 (ADM8845) LEDs: 1% current matching

White LED Flash Drivers

- *ADP1653:* I²C®-programmable, 3 W LED driver in 3 mm $\times$ 3 mm, 16-lead LFCSP

USB Switches

- *ADG787:* Dual 2:1 USB 1.1 switch in 1.5 mm $\times$ 2.0 mm LFCSP
- *ADG3241:* SPST USB 2.0 switch in 6-lead, 1.7 mm $\times$ 1.7 mm SOT-66
- *ADG3242:* 2 $\times$ SPST USB 2.0 switch in 8-lead, 2.8 mm $\times$ 2.8 mm SOT-23

Battery-charger ICs

- *ADP2291:* Single-cell Li-Ion battery charger, 8-lead MSOP and 3 mm $\times$ 3 mm LFCSP

Video, Imaging, and Display ICs

Camera Module ICs

- *AD5398:* Lens driver for automatic focus 1.5 mm $\times$ 1.7 mm WLCSP and LFCSP
- *AD9937/AD9938:* CCD signal generator/analog front end with 10-bit, 12 MHz A/D converter

TV Output Devices

- *ADV7179:* NTSC/PAL video encoder 40-lead, 6 mm $\times$ 6 mm LFCSP
- *ADV7390:* NTSC/PAL/HDTV video encoder 32-lead, 5 mm $\times$ 5 mm LFCSP
- *ADA4430-1:* Ultralow power video filter with power-down

TV Input Devices

- *ADV7180:* 10-bit NTSC/PAL/SECAM decoder

Mobile TV Tuner and Receivers

- *MTV102:* Low power RF tuner IC for China broadcast standard
- *ITD3010:* T-DMB band III RF tuner IC
- *ITD2010:* ISDB-T VHF/UHF dual-band RF tuner IC
- *MTV211:* ISDB-T VHF/UHF dual-band single chip receiver
- *MTV311:* T-DMB band III single chip T-DMB receiver

Audio ICs

Amplifiers

- *AD8541:* Audio microphone preamplifier 45 µA/amplifier
- *AD8692:* Audio microphone preamplifier 8 nV/$\sqrt{Hz}$ noise, 10 MHz BW
- *SSM2211:* 1.5 W, Class-AB audio power amplifier, 0.2% THD @ 1 W
- *SSM2301/2302:* 1.4 W mono (SSM2301) and stereo (SSM2302) filterless Class-D audio power amplifiers; 0.1% THD @ 1W, 85% efficiency

CMOS Switches

- *ADG888:* 0.5 Ω, 400 mA, 4 $\times$ SPDT audio switch in WLCSP
- *ADG884:* 0.5 V, 400 mA, 2 $\times$ SPDT audio switch in WLCSP

www.analog.com/handsetics

ANALOG DEVICES