MSM6050™ Chipset Solution

Affordable, accessible 3G wireless for all

The QUALCOMM® Value Platform has been designed to expand the market for voice and data services by offering affordable chipsets that support 3G CDMA2000® 1X and WCDMA (UMTS), with backward compatibility for 2G standards. Now basic color screens, position-location services, music, ringtones and voice-recognition features will be available to a much wider market.

The Value Platform can offer a vast audience of handset users — including those new to wireless — their first taste of the power of 3G networks, creating lucrative opportunities for manufacturers and operators alike. The integrated chipset design of the Value Platform allows manufacturers to quickly and cost-effectively bring handsets to market, while the integrated selection of Launchpad™ suite of integrated technologies enables operators to provide entry-level customers with exciting new services that encourage voice and data usage and ultimately increase average revenue per user (ARPU).

The Value Platform creates a seamless path to move customers up to 3G networks. Using QUALCOMM's proven, reliable wireless technology, manufacturers and operators can offer a range of entry-level phones with more features, at less cost than ever before.

NOW BASIC COLOR SCREENS, POSITION-LOCATION SERVICES, MUSIC, RINGTONES AND VOICE-RECOGNITION FEATURES WILL BE AVAILABLE TO A MUCH WIDER MARKET.

PERFORMANCE

Efficient design to cut manufacturing costs and time to market

- Air interfaces supported:
  - CDMA2000 1X (Release 0)
  - IS-95 A/B
  - GPS
- High-performance ARM7TDMI® microprocessor
- Embedded QDSP4000™ digital signal processor core

- Enhanced memory support for page mode NOR FLASH, NAND FLASH memory interface and SRAM/pseudo SRAM
- Integrated wideband mono voice CODEC
- 153.6 kbps forward-link/reverse-link data support speeds on CDMA2000 1X Rel. 0 networks
- 208-pin fine-pitch ball grid array (FBGA) package
- Open BREWapi™ software for developing handset UI and BREW® applications

QUALCOMM®
CDMA Technologies

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The Mobile Station Modem™ (MSM™) MSM6050™ chipset solution for CDMA2000 1X helps cut the costs to produce entry-level data-enabled devices for emerging markets worldwide. And by incorporating both digital and analog functions in a single chip, manufacturers can benefit from reduced bill-of-materials costs.

TECHNOLOGY FOR INDISPENSABLE HANDSETS AND MUST-HAVE APPLICATIONS

Popular features that meet consumer demand, boost airtime usage and drive in-demand applications

- QUALCOMM's gpsOne® position-location capabilities for location-based services (LBS) and support for commercially deployed consumer LBS applications

    - gpsOne® Assisted-GPS solutions provide enhanced GPS engines for greater sensitivity and faster start times

    - Full integration with JAVA and BREW-based development environments delivers support for commercially deployed location services

    - Seamless operation in MS-Assisted, MS-Assisted Hybrid and MS-Based GPS modes provides optimal performance both on and off-network

    - Support for both User Plane and Control Plane protocols

- CMX™ multimedia software for customized ringtones, screensavers and greeting cards:

    - MIDI-based voice (up to 32 polyphony)

    - Playback support for compact MIDI, General MIDI, SMAF™ (audio only) and SP-MIDI

- Digital audio support for MP3

- Support for digital stereo output up to 48 kHz

- PureVoice® Audio AGC (automatic gain control) for better calls, especially under noisy conditions

- SMS capability to tap into the enormous market for text messaging

- R-UIM removable card interface to support transfer of personal data to new devices without reprogramming

- Integrated Universal Serial Bus (USB) support

Please visit **www.cdmatech.com/valueplatform** to view the chipset comparison tool that details specific chipset features.
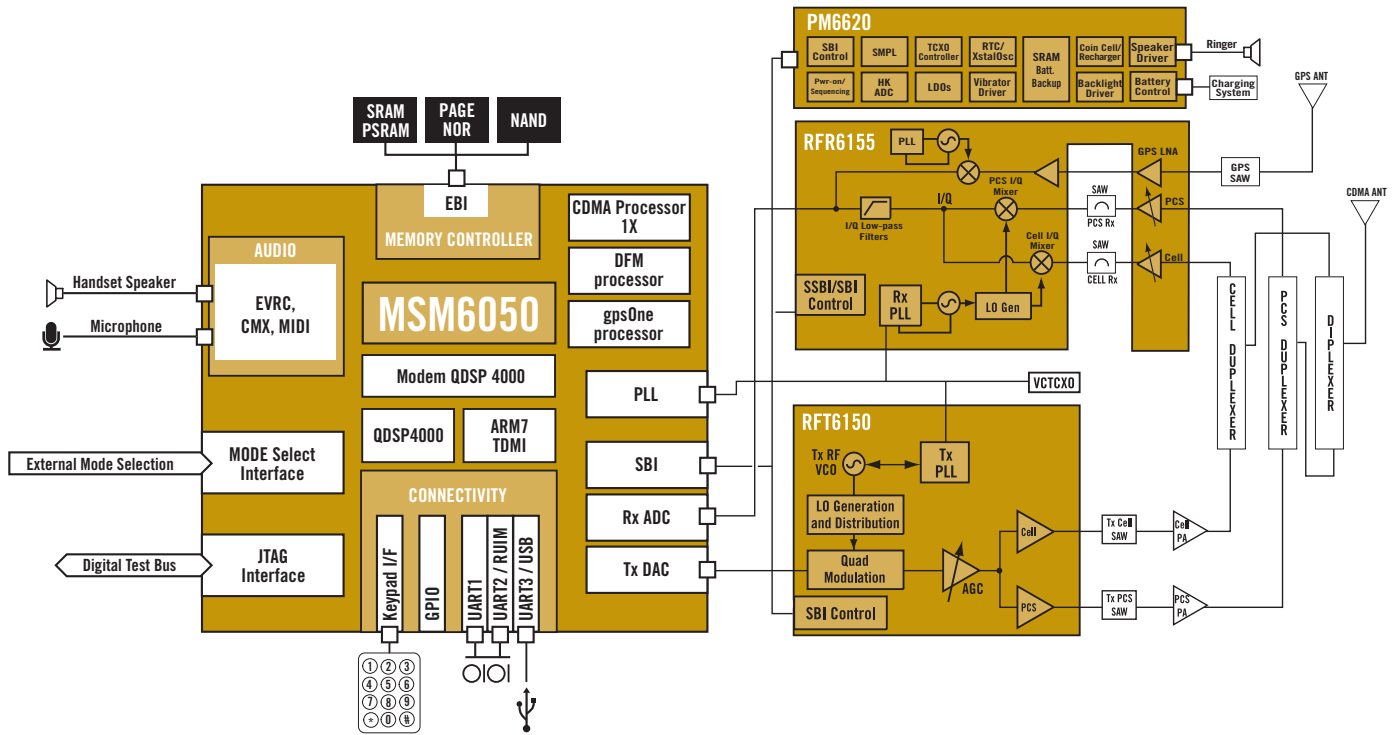
OPTIMIZED RF AND PMIC SOLUTIONS

QUALCOMM's radioOne® zero-IF radio frequency and powerOne™ power management solutions are optimized for our MSM chipsets for high-efficiency, price-competitive wireless devices. Expect a higher return on investment with our integrated solution — fewer discrete parts means lower development costs, lower BOM costs and ultimately lower handset costs. With our innovative RF CMOS processing technology and lead-free packaging solutions, handset manufacturers can be confident that wireless devices based on our complete solutions will be power efficient, dependable and cost competitive.

MSM6050 | AVAILABLE RF & PM CHIPSET COMBINATIONS

		RFL6000™ RFR6000™ RFT6100™	RFR6125™ RFT6120™	RFR6175™ RFT6170™	RFR6155™ RFT6150™
RF Chipset Configurations					
Power Management IC		PM6620™ PM6630™ PM6640™	PM6620™ PM6630™ PM6640™	PM6620™ PM6630™ PM6640™	PM6620™ PM6630™ PM6640™
CDMA2000	450 MHZ			■	
	CELL 850 MHz	■	■		■
	JCDMA 800 MHz	■	■		■
	KPCS 1700 MHz	■			■
	PCS 1900 MHz	■			■
	IMT 2100 MHz	■			
GPS		■	■	■	■

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MSM6050™ Chipset Solution

Information shown in this document is only exemplary of QUALCOMM products. QUALCOMM reserves the right to make changes, at any time and without notice, to its products that may cause its products to differ from the information shown in this document. NOTE: Alternative GPS antenna configurations are available.

Go Online
CHIPSET COMPARISON ONLINE TOOL

Please visit **www.cdmatech.com/valueplatform** to view the chipset comparison tool that details specific chipset features.

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