The QUALCOMM® Enhanced Multimedia Platform of chipsets takes the true multimedia handset from concept to reality. These chipsets make a leap in processing power to deliver the quality of video, graphics and audio that will amaze users today and define the multimedia experience for years to come. This enormous performance gain is backed by power efficiency and chip design that make the most sophisticated wireless multimedia both possible and profitable.

By deploying a single-chip design, this platform enables sleek, sophisticated media devices with large, high-resolution screens that deliver rich multimedia features such as 5.0 megapixel camera capability, video-on-demand, 3D gaming and video telephony. Picture quality is so crisp, games are so realistic and video streams are so fast that users are compelled to seek out more and more exciting content, driving demand for airtime and additional services.

The QUALCOMM Enhanced Multimedia Platform is the industry’s best solution for extending the capabilities of true wireless multimedia in 3G. It has a chipset solution for all major air interfaces and the power, speed and efficiency to run high-end multimedia that will revolutionize what people can do on a handset.

Maximize market share with a power-efficient, single-chipset solution for high-intensity wireless multimedia

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**THE QUALCOMM ENHANCED MULTIMEDIA PLATFORM OF CHIPSETS TAKES THE TRUE MULTIMEDIA HANDSET FROM CONCEPT TO REALITY.**

**PERFORMANCE**

**Integrated architecture ensures designs that minimize development time and expense and accelerate return on investment**

- Air interfaces supported:
  - CDMA2000® 1X (Release 0 and Revision A)
  - CDMA2000 1xEV-DO (Rel. 0 and Rev. A)
  - GSM release 99 phase 2 compliant
  - GPRS class B multislots class 10
  - GPS

- High-performance 225 MHz ARM926EJ-S™ microprocessor core with memory management unit (MMU)

- Two QDSP4000™ high-performance digital signal processors (DSP)

- QVM™ Java® environment with multitasking virtual machine (MVM) and ARM’s Jazelle™ Java acceleration

- Enhanced memory support for NAND, burst mode NOR, SDRAM and burst mode PSRAM

- Advanced 409-pin 0.5 mm pitch CSP package (14 mm x 14 mm)

- Integrated secure boot, secure software and secure storage

- Open BREWapi™ software for developing handset UI and BREW® applications
The Mobile Station Modem™ (MSM™) MSM6800™ solution for CDMA2000 1xEV-DO Rev. A networks powers the blazing-fast speeds required to run the high impact, multimedia applications that maximize profitability and drive revenue. Deliver high-speed, high-end infotainment devices designed for demanding consumers with the MSM6800 chipset.

**MSM6800™ Chipset Solution**

The Mobile Station Modem™ (MSM™) MSM6800™ solution for CDMA2000 1xEV-DO Rev. A networks powers the blazing-fast speeds required to run the high impact, multimedia applications that maximize profitability and drive revenue. Deliver high-speed, high-end infotainment devices designed for demanding consumers with the MSM6800 chipset.

**GRAPHICS**

True 3D graphics for advanced wireless gaming and rich GUIs
- Advanced 2D/3D graphics support with up to 225,000 3D triangles per second, and 7 million 3D textured pixels per second fill rate
- Q3Dimension™ rendering engine with OpenGL® ES- and JSR 184-compliant 3D graphics
- Dedicated hardware support for 3D rendering
- Supported by leading third-party game titles
- Up to Quarter Video Graphics Array (QVGA) resolution

**VIDEO**

Television-like clarity and camcorder-like recording
- Qtv™ Decoder
  - High-performance video player powers broadcast video, streaming video- and audio-on-demand plus video messaging at 30 fps QVGA
  - Video Codecs: MPEG-4, H.263, H.264, Windows Media® and RealNetworks®
  - Audio Codecs: QCELP®, EVRC, AMR-NB, AAC, aacPlus™ and Enhanced aacPlus, Windows Media and RealNetworks
- Qvideophone™ Video Conferencing Application
  - Two-way mobile videoconferencing solution that delivers 15 fps quality
  - 3GPP/2 standards compliant
  - Video Codecs: MPEG-4 and H.263
  - Audio Codecs: EVRC and AMR-NB
- Qcamcorder™ Encoder
  - A real-time wireless video recording solution that captures movies at 15 fps QVGA
  - 3GPP/2 standards compliant
  - Video Codecs: MPEG-4, H.263 and H.264
  - Audio Codecs: QCELP, EVRC, AMR-NB and AAC

**POSITION LOCATION**

Highly accurate positioning for location-based services (LBS)
- Next-generation gpsOne® Assisted-GPS solutions provide enhanced GPS engines for greater sensitivity and faster start times
- Enhanced filtering software optimizes GPS accuracy and availability for tracking and satellite navigation applications
- Full integration with JAVA and BREW-based development environments delivers support for commercially deployed location services
- Seamless operation in MS-Assisted, MS-Assisted Hybrid, MS-Based and Standalone GPS modes provides optimal performance both on and off-network
- Support for both User Plane and Control Plane protocols including IS-801 Control Plane and Trusted, V1 and V2 User Plane Assisted-GPS protocols
- Simultaneous operation capabilities with CDMA2000 1X and CDMA2000 1xEV-DO Rel. 0/EV-DO Rev. A

**CONNECTIVITY**

Connection with indispensable consumer electronics
- Supports QUALCOMM’s high-speed serial interconnection technology, Mobile Digital Display Interface (MDDI), for increased reliability in clamshell phones
- Integrated Bluetooth® baseband processor for wireless connectivity to peripherals
- Support for WLAN 802.11a/b/g and Voice-over-IP capabilities
- Universal serial bus (USB) on-the-go (OTG) functionality
- Support for multicast technologies, including QUALCOMM’s FLO™ technology, DVB-H and ISDB-T
- SecureMSM™ security suite v2.0: includes support for CPRM, subsidy protection and device-identifier integrity, including ESN

Please visit [www.cdmatech.com/enhancedplatform](http://www.cdmatech.com/enhancedplatform) to view the chipset comparison tool that details specific chipset features.
Integrated digital-still camera interface
- Qcamera™ software with 30 fps QVGA viewfinder resolution
- Support for up to 5.0 megapixel camera sensors with a flexible, integrated interface to CCD and CMOS sensors
- Hand jitter reduction, adaptive lighting
- Hardware-based Image Signal Processor and JPEG encoder
- Full image processing capabilities, including color correction, crop, resize, rotation, image blurring and sharpening, image overlay, picture frame support and visual noise reduction

Outstanding audio performance with support of industry-wide codecs
- Support for stereo output up to 48 KHz
- PureVoice® Audio AGC (automatic gain control) for better calls, especially under noisy conditions
- Digital audio support for MP3, AAC, aacPlus, Enhanced accPlus, Windows Media Audio and RealNetworks Audio
- CMX™ multimedia software for customized ringtones, screensavers and greeting cards:
  - MIDI-based voice (up to 72 polyphony)
  - Playback support for compact MIDI, General MIDI, SMAF™ (audio only), SP-MIDI, XMF/DLS and MFi
  - Scaleable Vector Graphics (SVG) Tiny
- QConcert™ surround-sound engine and QAudioFX™ enhanced gaming audio for positional sound
- QUALCOMM Audio Post Processing Functionality
- Enhanced Echo Cancellation for Full-Duplex Calls
- Fourth-Generation Vocoder™ (4GV™) voice codec to provide network operators with the flexibility to prioritize voice quality and network capacity

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 on select chipsets 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.

MSM6800 | AVAILABLE RF & PM CHIPSET COMBINATIONS

<table>
<thead>
<tr>
<th>RF Chipset Configurations</th>
<th>Power Management IC</th>
<th>RFR6500™ RFT6150™</th>
<th>RFR6525™ RFT6150™</th>
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<tr>
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<td>PM6650™</td>
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<td>CDMA2000</td>
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<td>JCDMA 800 MHz</td>
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Please visit www.cdmatech.com/enhancedplatform to view the chipset comparison tool that details specific chipset features.
MSM6800™ Chipset Solution

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