MSM6245™ 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 video streaming, multi-megapixel cameras, color screens, 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 VIDEO STREAMING, MULTI-MEGAPIXEL CAMERAS, MUSIC, RINGTONES AND VOICE-RECOGNITION FEATURES WILL BE AVAILABLE TO A MUCH WIDER MARKET

PERFORMANCE

Maximize design and development potential

- Air interfaces supported:
  - WCDMA (UMTS) R99
  - GSM Release 4
  - GPRS/EGPRS Multislot Class 12, Release 4
  - DTM Multislot Class 11
- High-performance 180 MHz ARM926EJ-S™ microprocessor core with memory management unit (MMU)
- QVM™ Java® environment platform with multitasking virtual machine (MVM) and ARM's Jazelle™ Java acceleration speeds execution of multiple, concurrent games and applets
- QSDO4000™ high-performance digital signal processors (DSP)
- Enhanced memory support for NAND and SDRAM
- Advanced 0.5 mm pitch packaging technology
- OpenBrewapi™ software for developing handset UI, BREW® and Java applications

QUALCOMM® CDMA Technologies

MSM6245™ Chipset Solution

The Mobile Station Modem™ (MSM™) MSM6245™ chipset and system software solution for WCDMA (UMTS) networks is an entry-level, integrated solution that makes wireless multimedia accessible. Depend on the MSM6245 solution to develop 3G devices that boast wireless multimedia features that can be produced at attractive price points to drive mass-market appeal.

GRAPHICS

True 3D graphics for advanced wireless gaming and GUIs

- Advanced 2D/3D graphics support with up to 150,000 3D triangles per second, and 600,000 3D textured pixels per second fill rate
- Q3Dimension™ rendering engine with OpenGL® ES-compliant 3D graphics
- Supported by leading third-party game titles
- Up to 176 pixels x 220 pixels resolution

VIDEO

Wireless video solutions for fast-action infotainment

Qtv™ Decoder

- High-performance video player powers streaming video- and audio-on-demand plus video messaging at 15fps QCIF
- Video Codecs: MPEG-4, H.263, H.264, Windows Media® and RealNetworks®
- Audio Codecs: AMR-NB, AMR-WB/AMR-WB+, 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: AMR-NB

Qcamcorder™ Encoder

- A real-time wireless video recording solution that captures movies at 15 fps QCIF
- 3GPP/2 standards compliant
- Video Codecs: MPEG-4 and H.263
- Audio Codecs: AMR-NB

CONNECTIVITY

Connection with indispensable consumer electronics

- Universal serial bus (USB) functionality
- SecureMSM™ security suite v.2.0: includes support for Open Mobile Alliance™ (OMA) DRM 2.0, SIM-lock and IMEI integrity
- Integrated Bluetooth™ baseband processor for wireless connectivity to peripherals

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

IMAGING

Integrated digital-still camera interface

- Qcamera™ software with 30 fps QCIF viewfinder resolution
- Support for 2 megapixel camera sensors
- 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

AUDIO

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 and Enhanced aacPlus, Windows Media Audio and RealNetworks Audio
- CMX™ mulltimedia 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
- QAudioFX™ enhanced gaming audio for positional sound
- QUALCOMM Audio Post Processing Functionality
- Enhanced Echo Cancellation for Full-Duplex Calls

OPTIMIZED RF AND PMIC SOLUTIONS

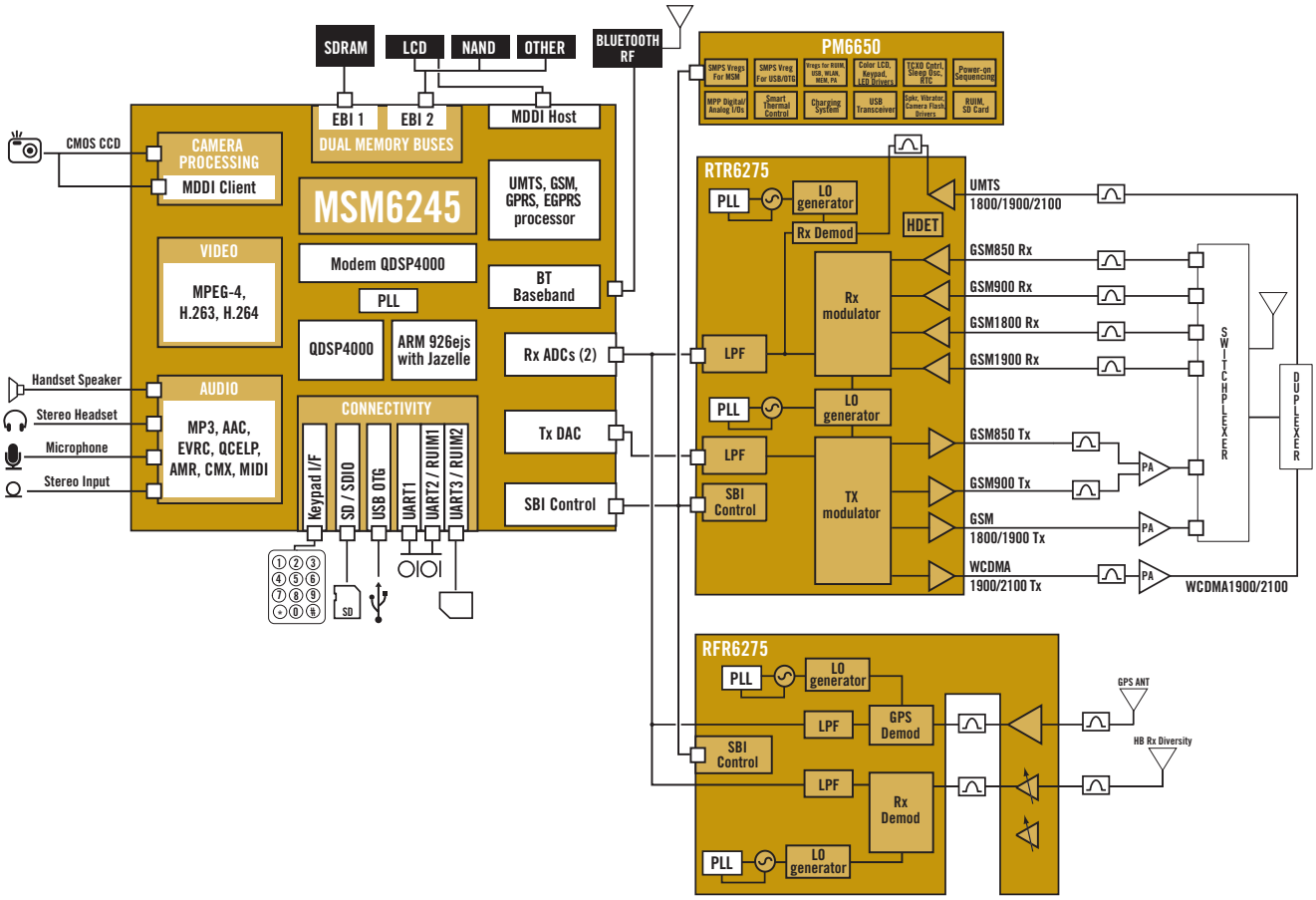
QUALCOMM's radioOne® zero-IF radio frequency and power management solutions are optimized for our MSM chipsets for high-efficiency, price-competitive wireless devices. Expect a higher return on investment with our integrated solution – fewer discrete parts means lower development costs, lower BOM costs 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.

MSM6245 | AVAILABLE RF & PM CHIPSET COMBINATIONS

RF Chipset Configuration		RFR6275™ RTR6275™	RFR6275™ RTR6275™
Power Management IC		PM6650™	PM6640™
GSM/GPRS/ EGPRS	850 / 900 / 1800 / 1900 MHz	■	■
UMTS	2100 MHz	■	■
	2100 + 800 MHz	■	■
	1900 + 850 MHz	■	■
	2100 + 1900 + 850/800	■	■

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

MSM6245™ 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/multimediaplatform to view the chipset comparison tool that details specific chipset features.

MSM6245_7/2006 Rev. D (ACL1066)

QUALCOMM® CDMA Technologies