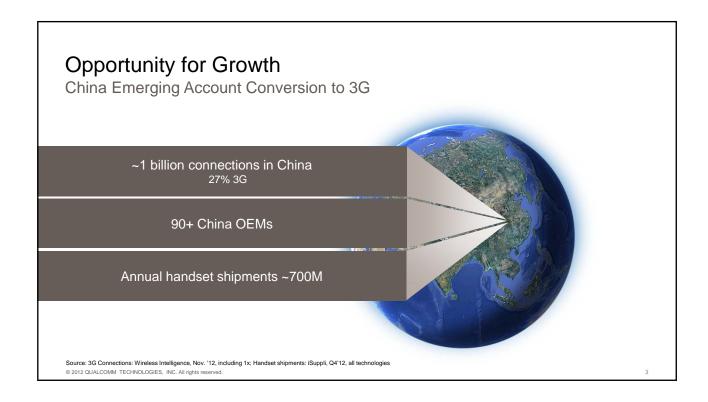


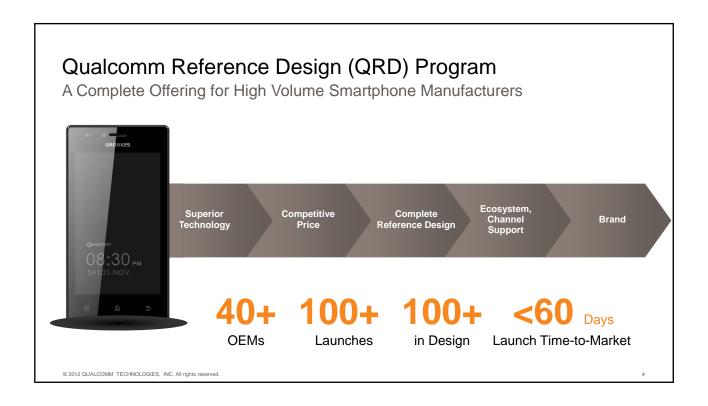


Bringing Leading Technology to Emerging Accounts











QRD Addresses Critical Needs

A Pre-engineered Solution that Combines Strong Support, Flexibility and Scale



Low cost smartphones



Reduced time to launch



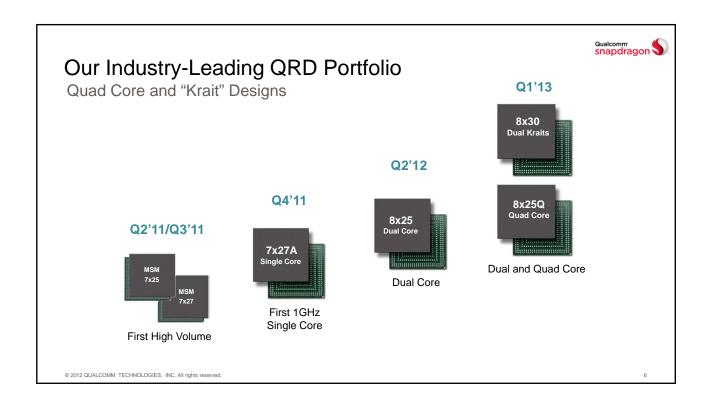
Design flexibility and feature innovation



Broad portfolio enablement

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Qualcomm Engaged Across a Growing Account Base

Unique Ability to Support Diverse Requirements



























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QRD Hardware Ecosystem Enables Rich Variety of Choices













MEMORY

eMMC + LPDDR

- Samsung
- Hynix
- Sandisk Micron

LPDDR

- Samsung
- Elpida
- Hynix

CAMERA

- Sensor IC
- Aptina
- Samsung

Module

- Sunny
- Lite Array

- OmniVision
- Hynix
- GalaxyCore

■ Superpix

- Truly
- Qtech

DISPLAY

Driver IC

- Novatek
- Himax
- Orise
- Ilitek Renesas

LCD Module

- Truly
- Tianma
- BOE
- TCL
- BYD

CAPACITIVE TOUCH PANEL

CTP IC

- Atmel
- FocalTech
- Synaptics

Cypress

- Module O-Film
- Truly
- Mutto
- Top Touch

I²C SENSOR

- Bosch Freescale
- ST
- Memsic
- AKM
- InvenSense
- Taos (AMS)
- Avago
- Lite-On

RF

- Skyworks
- RFMD
- Avago Murata
- Panasonic
- Epcos
- Triquint

Kyocera

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Only Single Platform to Support Top Three China Carriers MSM8x30



- TD-SCDMA/LTE
- CDMA/LTE
- HSPA+/LTE







~225M Connections



~675M Connections
New Opportunity

Source: Wireless Intelligence. Nov. '12



QRD Program in Brazil



Qualcomm collaboration with Ministry of Communications of Brazil

- Accelerate smartphone and tablet adoption and foster mobile broadband services
- Support local development of wireless technologies, products and applications

Qualcomm establishing Research and Development Center in Brazil

- Focused on mass-market tablets
- Working with Brazilian manufacturers
- Developer lab to support smartphone and tablet apps

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QRD – Enabling Smartphones for the Masses

Single / Dual / Quad Core

- Introducing MSM8x25Q with Snapdragon processor
- Quad core chipset and QRD for high volume 3G smartphones

Product Leadership

- Expanding QRD support to Snapdragon S4
- Broad portfolio includes support for LTE

Key Technology Support

- · Android ICS/Jelly Bean with CTS testing
- HD video/audio, peer-peer, local language input & UI
- Multimode connectivity leadership for high volume smartphones

Commercialization Support

- · Acceptance Test Lab & field testing
- SI support for localization
- ISV ecosystem for pre-integrated & optimized apps

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