GDM7243M
Multi-Mode FDD-TDD LTE + WiMAX Single Chip

GCT’s Single Chip Advantage:
RF + LTE & WiMAX Basebands on a Single Chip

Features

• Cat4 LTE: 150 Mbps downlink, 50 Mbps uplink
• Supports WiMAX IEEE 802.16e
• 3GPP Release 9
• On-Chip VoLTE, eMBMS
• TDD and FDD: Supports all frequency bands
• IMS, OTA-DM, etc. integrated
• Seamless handover between TDD and FDD-LTE
• Supports seamless FDD/TDD LTE and WiMAX handover
• Hostless stand-alone (CPE, USB Dongle, M2M)
• Complete LTE protocol stack and host software
• Global LTE roaming (multi-band support: >8 bands simultaneously)
• Pin compatible with GDM7243S

Interfaces

• USB2 (Device & Host)
• SDIO 3 (Device & Host)
• HSI
• SPI
• E-MEM
• R-GMII

Package Outline

• 12x12x1.2 mm BGA package
• Integrated memory optional

Key Benefits

• Multi-Mode LTE & WiMAX
• Low Power Consumption
• High Integration (BB, RF), lower cost of ownership
• Turnkey VoLTE, eMBMS, etc.
• High Performance
• Inter and Intra-band Capability

Applications

• Smartphones, Tablets, etc.
• Mobile Hotspots, CPEs
• USB Dongles
• M2M Modules
• Ultrabooks, Chromebooks
• Datacards

GDM7243M

RF

Baseband

CPU

TDD/FDD LTE BB
PHY & MAC

WiMAX-16e BB
PHY & MAC

Peripheral

&

USB &
SDIO Host

LPDDR2
(Optional)