

GDM7221 Product Brief

Mobile WiMAX IEEE 802.16e Wave-2 Single-Chip

Key Benefits

- Optimized for smartphones: improved performance and the lowest power consumption available for WiMAX smartphones
- Dual band (2.3 ~ 2.7 GHz, 3.4 ~ 3.8GHz)
- Supports over 40Mbps on the downlink, and over 9 Mbps on the uplink
- Improved modem performance
- Satisfies high demands of multimedia processing

Applications

- Smartphones
- Mobile handsets
- Mobile routers

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Features

- 40Mbps DL (HARQ6+), 9Mbps UL(64QAM)
- USB PHY included
- SDIO host (1/4bit)
- SDIO device
- NAND controller
- SPI master
- UART0/1
- USIM interface
- I2C interface

GDM7221

GDM7221 leverages the benefits of GCT's advanced market-proven single-chip WiMAX solutions, and offers improved WiMAX performance with the industry's lowest power consumption. GCT's new generation chip is optimized to meet the demands of today's smartphones, offering advanced modem performance beyond HARQ Category 6. This compact solution integrates dual band RF and baseband into one monolithic 65 nm die.

With its unique architecture, GDM7221 allows for the lowest power consumption available on the market today. GDM7221 has a proven measured "Idle-Mode" power consumption of less than 0.9 mW which extends WiMAX smartphones' battery lives significantly. It offers advanced WiMAX modem performance which can simultaneously support over 40 Mbps on the downlink, and over 9 Mbps on the uplink.

GDM7221 combines 2GHz and 3GHz WiMAX frequency bands. This new single-chip is designed to satisfy the high processing demands of multimedia data processing, video, wireless connectivity, and to increase battery life for longest running time.