

# GDM7243ST

Category 4 LTE Single Chip  
for B31 (450 MHz) to B42 (3.5GHz) and B43 (3.8GHz) bands

## GCT's All-in-One Chip: RF Transceiver + Modem SoC + DDR2 128MB



### Features

- Category 4 LTE: Release 9, 150 Mbps downlink, 50 Mbps uplink
- Supports both TDD and FDD for most bands
- Features VoLTE, eMBMS
- Supports a wide range of bands, including 450 MHz, 600 MHz To 1GHz, 1.7GHz to 2.7 GHz and 3.3 GHz to 3.8 GHz
- Dual CPU with 2<sup>nd</sup> CPU open for applications
- Supports Linux
- Offers seamless handover between FDD and TDD-LTE
- Supports any 6 bands simultaneously for global roaming
- Supports standalone CPE, USB dongle, and M2M modules

### Interfaces

- USB2.0 (Device & Host)
- SDIO2.0 (Host)
- RGMII
- I2S/PCM
- SPI
- UART
- I2C

### Package Outline

- 12x12x1.2 mm BGA package

### Key Benefits

- Single chip with 2<sup>nd</sup> CPU enables self-contained low cost CPE
- Supports a wide range of bands, including:
  - Ultra low band of 450 MHz
  - Low band of 600 MHz to 1GHz
  - High band of 1.7 GHz to 2.7GHz
  - Ultra high band of 3.3 GHz to 3.8 GHz
- Low power consumption
- VoLTE optional
- Reference designs available

### Applications

- CPEs
- Mobile Hotspots

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