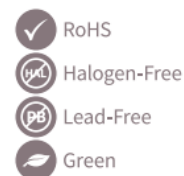
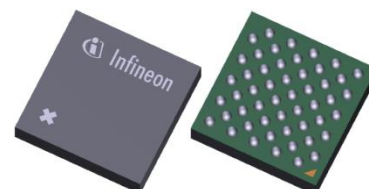


BGM787U50

7x LNA Bank with Output Cross-Switch for 5G

Features

- Wide operating frequency range: 600 - 2700 MHz
- 2x LB LNA group: 600-960 MHz
- 5x MLB/MHB LNA group: 1400-2700 MHz
- Highly flexible output MUX
- Gain Mode Support for MediaTek, LSI and Qualcomm platforms
- Support of 4x4 MIMO and EN-DC with just 2 LNA-Banks
- Programmable power gain: 21 dB down to -12.8 dB in 3dB steps
- Programmable current consumption for each LNA: 2.5 - 10 mA
- Noise figure for high gain mode: 0.8 dB
- Support of 1.2V and 1.8V Vdd/Vio
- RF output internally matched to 50 Ω
- Suitable for LTE / LTE-Advanced, 4G and 5G applications
- Integrated DC block capacitors at input and output
- Pin to pin compatible with MT6191 LNA bank and BGM687U50
- Low power operation
- Small form factor 2.8 mm x 2.8 mm
- RoHS and WEEE compliant package
- USID select pin



Description

The BGM787U50 is an LNA bank with 7 LNAs (2x Low band, 5x Mid/High band) with a complex 7P7T output cross-switch designed for 4G/5G cellular RX frontends supporting EN_DC, CA and MIMO operation. Low band LNAs support a frequency range from 600MHz to 1500 MHz, high band LNAs from 1400 MHz to 2690 MHz. Each LNA supports 10 gain modes to be compatible with all relevant modem platforms. The wideband LNA design together with a highly configurable output MUX offers maximum system design flexibility.

Block diagram and ordering information

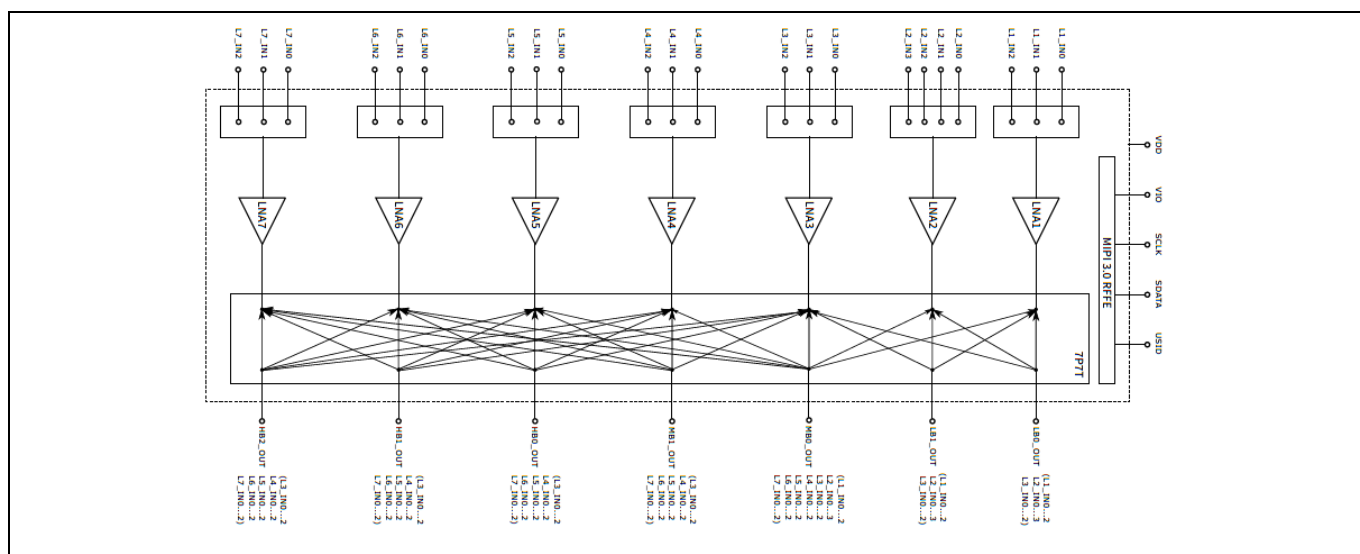


Figure 1 BGM787U50 Block diagram

Table 1 Ordering Information

Type	Marking	Package	Product name
BGM787U50	B787	PG-WF2BGA-50-2	BGM 787U50 E6327

For more technical information, please contact our Technical Assistance Center or your local Infineon representative.

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