

Preliminary DATA SHEET

GDQ5828A: 5100 to 5900 MHz High Efficiency LTE/WiFi Power Amplifier

Product overview

GDQ5828A is a three-stage HBT general purpose power amplifier working at 5100~5900 MHz with on-chip PA enable controller and temperature compensation circuits. This high-efficiency and DPD-friendly PA can deliver up to 28 dBm average output power and 36 dBm peak power using 20MHz LTE signal (8.5dB PAR @ 0.01 % CCDF). The product input and output are both internally matched to 50 Ohm.

Key Features

- 5100MHz – 5900 MHz
- 28dB Gain
- 40 % PAE at peak power @5.5GHz
- -30 dBc ACPR at 28 dBm output power
- Higher than 36dBm peak power
- Input/output internally matched to 50Ohm
- Compact and low-cost 5 mm x 5 mm QFN package (MSL3, 260 °C per JEDEC J-STD-020)
- ESD Level: HBM 1000 V; CDM 1000V

Applications

- Wi-Fi Business Drone, Booster
- FDD and TDD wireless systems
- Active antenna array and massive MIMO
- Customer Premises Equipment (CPE)

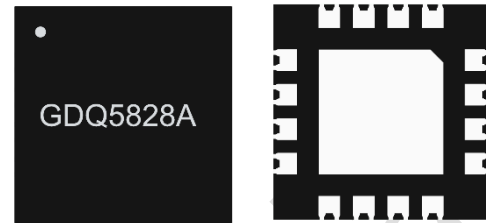


Figure 1. 16 Pin 5 x 5 mm QFN Package

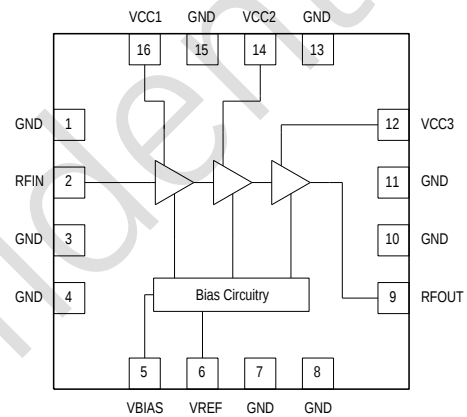


Figure 2. GDQ5828A Function Block Diagram

Ordering Information

Part No.	Description
GDQ5828A	5100-5900 MHz High efficiency PA, 7' Reel with 1500 pcs