

LX5586

4.8-5.85GHz IEEE802.11ac Front End Module

Preliminary Product Brief

Description

The LX5586 is a complete integrated 5GHz Front End Module (FEM) for an IEEE 802.11ac system. It includes a highly linear 5GHz Power Amplifier (PA) with power detector, Low Noise Amplifier (LNA) with bypass capability, and SPDT antenna switch. This highly integrated FEM only requires one bypass cap thus reducing system foot-print, bill of materials, and manufacturing cost.

The LX5586 is available in 16-pin low profile 2.5x2.5x0.4mm QFN Package.

For more information or a complete datasheet, please contact your local Microsemi sales team.

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Features

- ◆ Single Supply voltage 3.0V to 4.6V
- ◆ Integrated 5GHz PA, LNA, and SPDT Tx/Rx Switch
- ◆ POUT = 16dBm at -35dB EVM (256QAM/80MHz)
- ◆ Bypassable LNA with low NF
- ◆ Small Footprint: 2.5x2.5mm²
- ◆ Low Profile: 0.4mm max
- ◆ RoHS Compliant & Halogen Free

Applications

- ◆ Smartphones
- ◆ Tablets
- ◆ Mobile Devices
- ◆ Notebooks
- ◆ Gaming

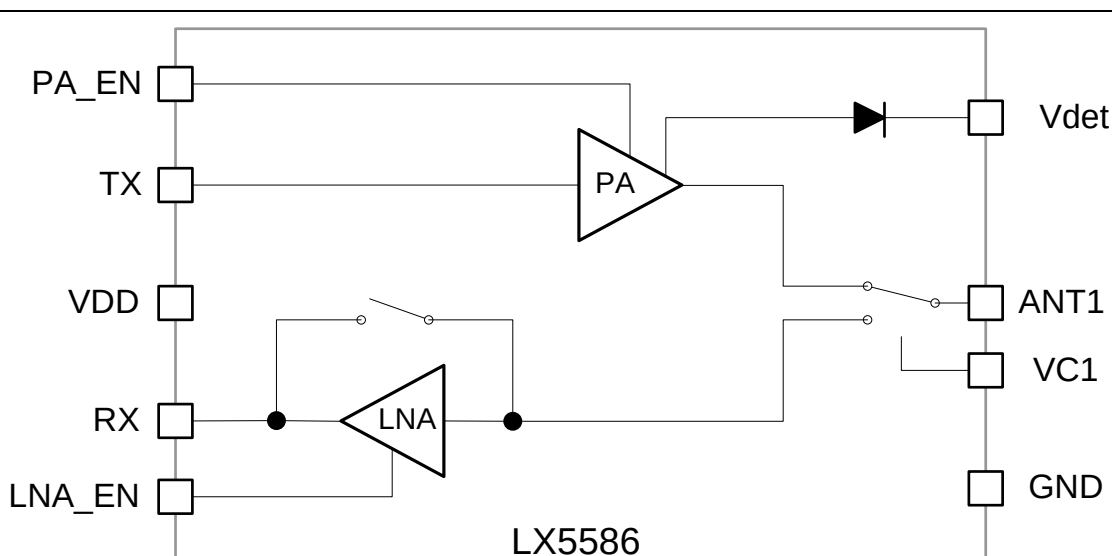


Figure 1: LX5586 Functional Block Diagram