



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



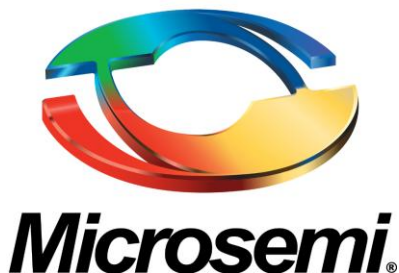
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# LX5586

## 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.*

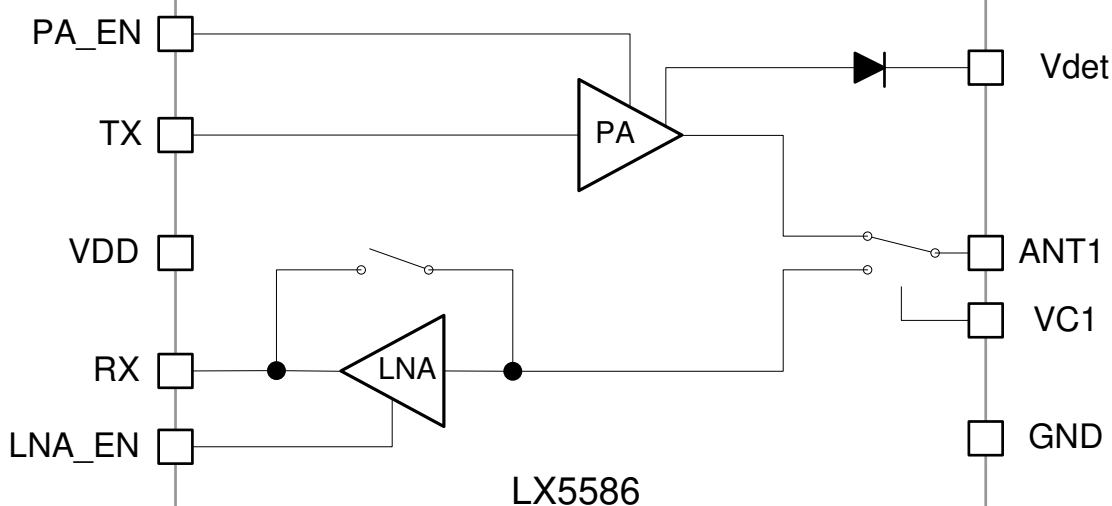
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## Features

- ◆ 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: 2.5x2.5mm<sup>2</sup>
- ◆ Low Profile: 0.4mm max
- ◆ RoHS Compliant & Halogen Free

## Applications

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



**Figure 1: LX5586 Functional Block Diagram**