5.15–5.85GHz 802.11ac Front End Module

Description

The LX5586H 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 footprint, bill of materials, and manufacturing cost.

The LX5586H is available in a 16-pin low profile 2.5x2.5x0.45mm QFN Package.

Features

- 5V Supply Voltage
- Integrated 5GHz PA, LNA, and SPDT Tx/Rx Switch
- POUT = 19dBm (typical) at -36dB EVM (256QAM/80MHz)
- Bypassable Low Noise Figure LNA
- Small Footprint: 2.5 x 2.5mm²
- Low Profile: 0.45mm max
- RoHS Compliant & Halogen Free

Applications

- Tablets
- Access Points
- Mobile Devices
- Notebooks
- Gaming

Block Diagram

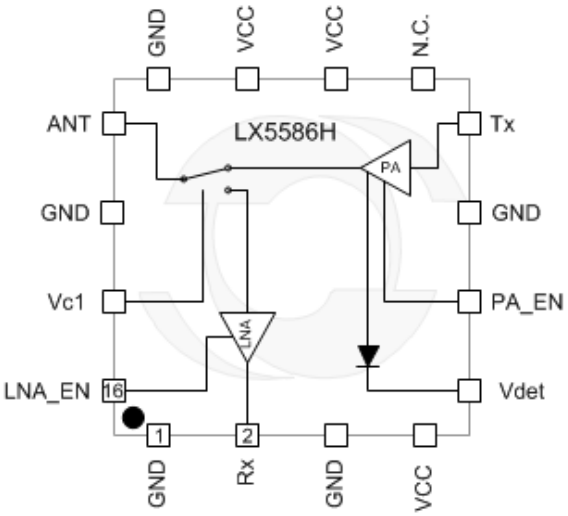

Figure 1 · Functional Block Diagram

Pin Configuration

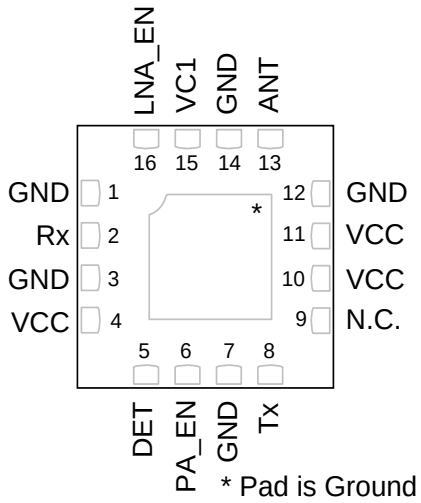

Figure 2 · Pinout (Top View)

Ordering Information

Ambient Temperature	Type	Package	Part Number	Packaging Type
-40°C to 85°C	RoHS2 compliant, Pb-free NiPdAu lead finish	QFN 2.5x2.5x0.45 16L	LX5586HLL	Bulk / Tube
			LX5586HLL-TR	Tape and Reel

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(Abridged)