

5.15-5.85 GHz 802.11ac Front End Module

Description

The LX5589B 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 reduces the system footprint, bill of materials, and manufacturing cost.

The LX5589B is available in a 16-pin 3 mm \times 3 mm QFN Package.

Features

- 5V Supply Voltage
- Integrated 5GHz PA, LNA, and SPDT Tx/Rx Switch
- P_{OUT} = 20dBm (256QAM / 80MHz)
- Bypassable LNA
- 3 mm x 3 mm QFN package
- RoHS2 Compliant & Halogen Free

Applications

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

Block Diagram

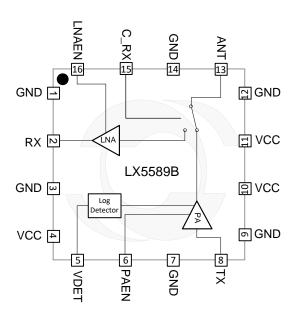


Figure 1 - Functional Block Diagram

Pin Configuration

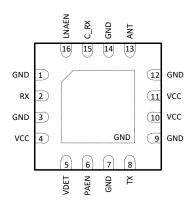


Figure 2 - Pinout (Top View)

Ordering Information

Ambient Temperature	Туре	Package	Ordering Part Number	Packaging Type
-40°C to 85°C	RoHS2 compliant,	QFN 3x3x0.9 16L	LX5589BLQ	Bulk
	Pb-free NiPdAu lead finish		LX5589BLQ-TR	Tape and Reel



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