



QXM108x

- Overview
- Documentation

Fully Integrated front end module designed for Wi-Fi

Our Qualcomm® QXM108x Wi-Fi Front End Modules (FEMs) are comprised of small size RFFEs with integrated active and passive components used to cover the wide breadth of IEEE802.11b/g/ac/ax/be applications. Our latest offering includes integrated power amplifiers, low noise amplifiers, switches, and directional couplers. The latest Wi-Fi air interface standard...

more

Qualcomm FastConnect, Snapdragon, Qualcomm QXM108x, Qualcomm WCN685x and Qualcomm WcN785x are products of Qualcomm Technologies, Inc. and/or its subsidiaries.
[Product license agreement](#)

✓
Best In Class PA Efficiency

✓
Best in Class Noise Figure

✓
Rx High Efficiency Gain Mode

✓
Low Bypass Insertion Loss

Lowest Tx Current Consumption

Better system sensitivity

> 70% lower current consumption than normal Rx gain mode

Ultra-low Bluetooth energy consumption and better standby sensitivity in bypass modes

Feedback



Features

- Small-size PA/LNA RFFEs for IEEE802.11a/n/ac/ax/be applications
- Covers 2.4GHz, 5GHz and 6GHz frequency ranges
- Supports Wi-Fi 7
- Integrated power amplifier (PA) supporting several high linearity and high-efficiency modes
- Integrated low noise amplifier supporting high gain, high efficiency, and bypass modes
- Integrated switches for single antenna Wi-Fi Rx and Wi-Fi Tx operation
- Integrated directional coupler for precise transmit power control
- Optimized for use with Qualcomm® WCN685x and Qualcomm® WCN785x
- 50 Ω RF ports, no external RF matching components required
- Low profile, small-size laminate package
- Integrated ESD protection on all pins
- Ni/Au-plated pads
- RoHS compliant
- Moisture sensitivity level 3 (MSL3)

Specifications

Wi-Fi	Wi-Fi/Bluetooth System: Qualcomm® FastConnect™ 6900, Qualcomm® FastConnect™ 7800 Generation: Wi-Fi 4, Wi-Fi 6, Wi-Fi 5, Wi-Fi 7 Standards: 802.11ac, 802.11be, 802.11b, 802.11g, 802.11ax, 802.11n Spectral Bands: 6 GHz, 5 GHz, 2.4 GHz Channels: 320 MHz Peak QAM: 4K QAM
Bluetooth	Wi-Fi/Bluetooth System: Qualcomm® FastConnect™ 7800, Qualcomm® FastConnect™ 6900
Part	Part Number(s): QXM1084, QXM1085, QXM-1083-0-LGA19-TR-H6-0, QXM-1086-0-LGA17D-TR-J4-0



Access more.

To access more QXM108x resources, you need to be a member of a verified company. Company verification is initiated by filling out our access request form.

Register

Learn More

Already have a Qualcomm account? [Sign in](#)



Qualcomm relentlessly innovates to deliver intelligent computing everywhere, helping the world tackle some of its most important challenges. Our leading-edge AI, high performance, low-power computing, and unrivaled connectivity deliver proven solutions that transform major industries. At Qualcomm, we are engineering human progress.



Stay connected

Get the latest Qualcomm and industry information delivered to your inbox.

✉ Subscribe

[Manage your subscription](#)