

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 IEEEE802.11b/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...

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### Best In Class PA Efficiency

Lowest Tx Current Consumption



# **Figure**

Better system sensitivity



### Rx High Efficiency Gain Mode

> 70% lower current

consumption than normal Rx gain mode

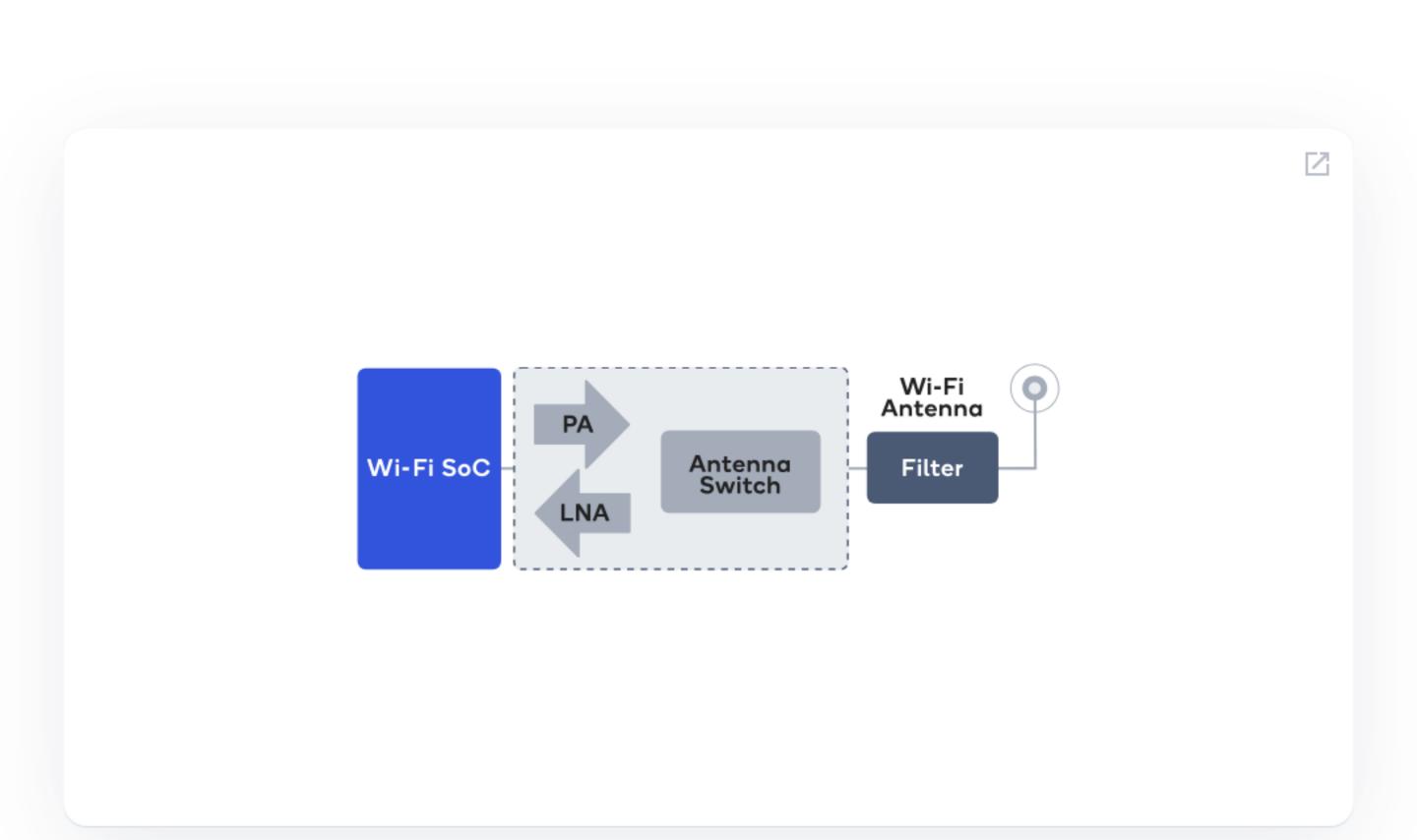


### Low Bypass Insertion Loss

Feedback

consumption and better standby sensitivity in bypass modes

Ultra-low Bluetooth energy



## **Features**

Covers 2.4GHz, 5GHz and 6GHz

IEEE802.11a/n/ac/ax/be applications

frequency ranges Supports Wi-Fi 7

Small-size PA/LNA RFFEs for

Integrated power amplifier (PA)

modes

high-efficiency modes Integrated low noise amplifier supporting

supporting several high linearity and

 Integrated switches for single antenna Wi-Fi Rx and Wi-Fi Tx operation

high gain, high efficiency, and bypass

- Integrated directional coupler for precise transmit power control
- Optimized for use with Qualcomm<sup>e</sup> WCN685x and Qualcomm® WCN785x
- 50  $\Omega$  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)

Part

Wi-Fi

**Specifications** 

Generation: Wi-Fi 4, Wi-Fi 6, Wi-Fi 5, Wi-Fi 7

Wi-Fi/Bluetooth System: Qualcomm® FastConnect® 6900,

Standards: 802.11ac, 802.11be, 802.11b, 802.11g, 802.11ax, 802.11n Spectral Bands: 6 GHz, 5 GHz, 2.4 GHz

Qualcomm® FastConnect® 7800

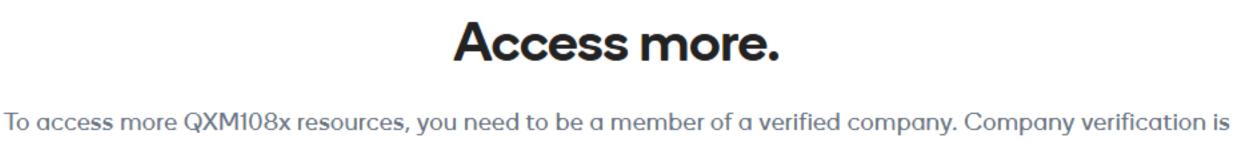
Peak QAM: 4K QAM

Channels: 320 MHz

Bluetooth Wi-Fi/Bluetooth System: Qualcomm® FastConnect® 7800, Qualcomm<sup>e</sup> FastConnect<sup>\*\*</sup> 6900

H6-0, QXM-1086-0-LGA17D-TR-J4-0

Part Number(s): QXM1084, QXM1085, QXM-1083-0-LGA19-TR-



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