

WLAN8101H: 2.4 GHz Wi-Fi 6 Front-end Module

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Overview

The WLAN8101H is a 2.4 GHz 2 x 2 MIMO RFFE for Wi-Fi 6 applications in a 3 mm x 4 mm package.

The WLAN8101H includes two monolithic front-end ICs. Each front-end IC includes a transmit amplifier with directional coupler, a low noise receive amplifier and a transmit/receive switch with a Bluetooth channel. The power amplifier supports 3 different T_X gain modes to improve power efficiency. The directional coupler improves transmit-power sensing accuracy.

WLAN8101H also includes coexistence filters for both transmit and receive channels.

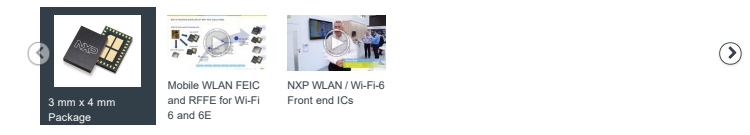
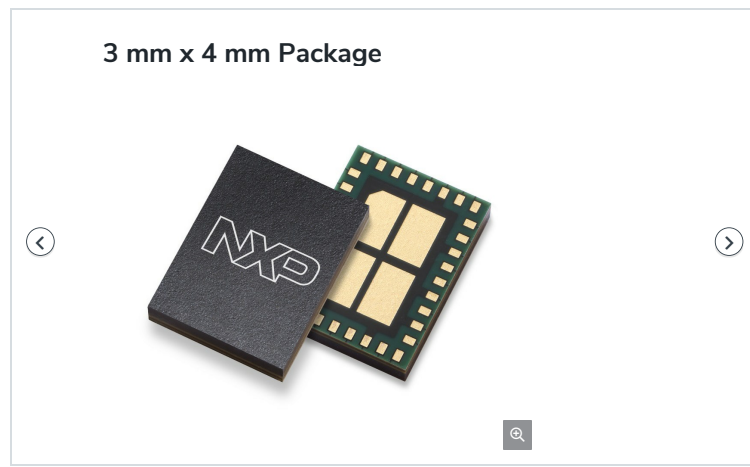
The device is matched to 50 Ω and integrates harmonic and out of band filtering which minimizes the layout area in the application.

Features

- Small-size 2 x 2 MIMO RFFE for Wi-Fi 6 applications
- Integrated power amplifiers with multiple operation modes for dynamic power efficiency and linearity control
- Full high band 2402 MHz to 2482 MHz
- 3 T_X operation modes enabling flexibility for power efficiency adaptation
- Integrated low noise amplifiers supporting high gain and

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