PRODUCT SUMMARY

SKY5®-5242-11: Dual 2.4 GHz, 802.11ax High-Linearity, High-Efficiency Front-End Module

Applications
- Wi-Fi-enabled handsets, tablets, and mobile/portable systems
- 802.11ax and dual gain to support smartphones and tablets

2.4 GHz Features
- Integrated high-performance 2.4 GHz PA, harmonic filter, LNA with bypass, and T/R switch including Bluetooth® path
- Three transmit modes
- Transmit gain: 30 dB, 26 dB, or 17 dB
- Receive gain: 15 dB
- Receive bypass loss: -5 dB
- Output power:
  - +22 dBm @ -26 dB HL DEV, MCS0, HT20
  - +20.5 dBm @ -34 dB HL DEV, MCS7, HT20-HT40
  - +19 dBm @ -40 dB HL DEV, MCS9, VHT20-VHT40
  - +16.5 dBm @ -45 dB HL DEV, MCS11, HT20-HT40
  - +14.5 dBm @ -47 dB HL DEV, MCS11, HT20-HT40
- Nominal supply voltage: 3.85 V
- Small MCM (34-pin, 4 x 3 x 0.7 mm) package (MSL3, 260 °C per JEDEC J-STD-020)

Description
The SKY55242-11 is a highly integrated, dual 2.4 GHz front-end module (FEM) that supports simultaneous 2x 2.4 GHz WLAN including Bluetooth.

The SKY55242-11 includes a 2.4 GHz power amplifier (PA), a 2.4 GHz low noise amplifier (LNA) with bypass and a single-pole, triple-throw (SP3T) transmit/receive (T/R) switch. The compact module has two separate 2.4 GHz chains; each chain has a dedicated coupler and BT port.

The device is provided in a compact, 34-pin 4 x 3 mm package. A functional block diagram is shown in Figure 1.
## Ordering Information

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<td>2.4 GHz Dual-Band 802.11ax Front-End Module</td>
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