



Product Brief

Applications

- Multiband 3G handsets
- Multiband FDD LTE handsets
- WCDMA / LTE
 - Bands 26, 8, 12, 20, 13 (SKY78041)
 - Bands 26, 8, 12, 20, 28A, 28B (SKY78042)

Features

- Fully integrated LB/VLB multiband module
- Envelope Tracking (ET) for WCDMA/FDD LTE bands
- CDMA compatible
- Dual-band GSM/GPRS/EDGE 850/900 MHz
- Fully programmable Mobile Industry Processor Interface® (MIPI®) digital control
- Closed loop architecture with the Implemented coupler output port
- Fully configurable RF inputs
- SKY78041
 - Support Band 13 transmit output port
 - Support Band 29 receiver port
- SKY78042
 - Supports Band 20 transmit output port
- Small, low profile MCM 48-pad 7.5 x 6.0 x 0.9 mm package

| SkyOne® Ultra

Customized Solutions Reduce System Complexity for Next Generation Smartphones

SkyOne® Ultra, the newest addition to the SkyOne® platform, leverages Skyworks' broad systems expertise resulting in a highly configurable, integrated solution that is optimized for envelope tracking, solves harmonically-related carrier aggregation challenges and delivers the highest power added efficiency in the world.

SKY78041 and SKY78042

[SKY78041](#) and [SKY78042](#) are hybrid, multimode multiband front-end modules that support 2.5G, 3G/4G and CDMA handsets and operate efficiently in GSM, GPRS, EDGE, WCDMA, HSPA and LTE modes. Leveraging integrated duplexers, the SKY78041 is targeted for Europe, North America and Korea (Bands 8, 12, 20, 26 and 29), and the SKY78042 for Latin America, Australia and China (Bands 8, 12, 26, 28A and 28B).


The devices consist of a GSM800/EGSM900 PA block, separate WCDMA blocks operating in the low bands, a logic control block for multiple power control levels, and band enable functions in both cellular and UMTS. RF I/O ports internally matched to 50 ohms minimize the need for external components. Extremely low leakage current maximizes handset standby time. The InGaP/GaAs die and passive components are mounted on a multi-layer laminate substrate and the assembly is encapsulated in plastic overmold.

An evaluation board is available for each device.



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 Skyworks Green™ products are compliant to all applicable materials legislation and are halogen-free. For additional information, please refer to Skyworks Definition of Green™, document number SQ04-0074.



SKYWORKS®

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SkyOne® Ultra



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