



Product Brief

Applications

- 2.5G and 3G/4G handsets

Features

- PA core optimized to meet or exceed best-in-class performance
- Optimized for envelope tracking
- Full power supported for average power tracking system
- Hybrid architecture: separate GSM, TD-SCDMA, WCDMA Tx paths
- 50 ohms I/O impedances, integrated DC blocking on all ports
- Integrated duplexers for Bands 1, 2, 5, 8
- Seven Tx post-PA outputs (3MB, 1LB, 3VLB) to support external duplexers from internal PA engine
- Ten TRx Aux ports (4HB, 4MB, 2LB/VLB) to support external RF paths and satellite PAs / duplexers / coexistence filters
- MIPI® RFFE control interface with 1.8 V nominal supply, fully operable for VIO high / VBATT low
- Small, low profile MCM 56L 7 x 7.8 x 0.8 mm package

| SkyOne® Mini

Highly Integrated Solutions with Reduced Cost and Size

SkyOne® Mini, a derivative of the SkyOne® platform, specifically addresses the growing demand for value-oriented solutions in the LTE market by delivering the full functionality associated with the highly integrated SkyOne® devices but at a reduced cost and size.

SKY78070, SKY78071 and SKY78072

[SKY78070](#), [SKY78071](#) and [SKY78072](#) are hybrid, multimode multiband front-end modules (FEMs) that support 2.5G and 3G/4G handsets and operate efficiently in GSM, GPRS, EDGE, TD-SCDMA, WCDMA, HSPA and LTE modes.


- The SKY78070 contains four integrated duplexers for Bands 1, 2, 5 and 8 plus a SP16T switch for non-carrier aggregation applications.
- The SKY78071 contains five integrated duplexers for Bands 1, 2, 4, 5 and 8 plus a DP18T switch for high/low and medium/low carrier aggregation applications.
- The SKY78072 contains four integrated duplexers for Bands 1, 2, 5 and 8 plus a DP18T switch for high/low and medium/low carrier aggregation applications.

The SKY78070, SKY78071, and SKY78072 FEMs consist of a GSM800/EGSM900 PA block, a DCS1800/PCS1900 PA block, separate WCDMA blocks operating in the low and mid- bands, duplexers for bands 1, 2, 5 and 8, a logic control block for multiple power control levels, and band enable functions in both cellular and UMTS. The table on the reverse side shows features for 2.5G, 3G and 4G.



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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.



Product Brief

2.5G, 3G and 4G Features

2.5G	3G	4G
<ul style="list-style-type: none"> • EGPRS Class 12 multi-slot operation • Two RF POUT control levels using digital logic interface • Linear PA with bias optimization for efficiency/linearity trade-off in 8PSK mode 	<ul style="list-style-type: none"> • WCDMA mode supports output power, bandwidth for Bands 1, 2, 4, 5, 8 through an integrated select switch • TD-SCDMA mode supports output power, bandwidth for Bands 34, 39 via integrated select switch • Linear amplifiers with bias optimization and low/high mode gain switch for best efficiency/linearity tradeoff 	<ul style="list-style-type: none"> • LTE supports output power, bandwidth for Bands 1, 2, 3, 4, 5, 8, 12/17, 13, 20, 27, 28, 39 • Bands 1, 2, 3, 4, 20, 28, 39 up to 20 MHz bandwidth • Band 27 up to 15 MHz bandwidth • Bands 5, 8, 12/17, 13 up to 10 MHz bandwidth

SkyOne®



SkyOne® Mini



For the latest information, please visit our website at www.skyworksinc.com

