Billions of Connections, One Solution

Skyworks has been enabling wireless connectivity for over a decade. But given growing consumer demand for wireless ubiquity and the desire for anytime, anywhere access, there are billions of connections yet to be made.

With our high-performance analog semiconductors, Skyworks is linking people, places, and things across a growing number of markets and applications – bringing everyone closer to vital information wherever it is needed.

Headquartered in Woburn, Massachusetts, Skyworks is a global company with engineering, marketing, operations, sales and service facilities located throughout Asia, Europe and North America. For more information, please visit Skyworks’ website at: www.skyworksinc.com.

The Right Design Choice Starts Here
Skyworks is continually releasing new products. We invite you to review our new and featured product offerings from our broad portfolio.

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Scan to join our customer email program today!
Mobile Devices

Consumers are more connected than ever and Skyworks is helping drive the revolution in mobile connectivity. Our complex modules and components are compact, energy and cost efficient, meeting size and performance constraints while managing potential signal interference. Our products serve as key components in the design of wireless mobile devices such as smartphones, tablets, data cards and WLAN (wireless local area network) systems.

SkyOne® Ultra
SKY78041, SKY78042

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.

SkyOne®
SKY78027-12

The industry’s highest performance, most integrated front-end solutions, SkyOne® offers rapid customization and a >50% smaller footprint for superior 2G, 3G and LTE performance. The SkyOne® family leverages our portfolio and system solutions expertise to deliver scalable, complex front-end solutions that enable worldwide mobile data access for always on connectivity.

SkyOne® Mini
SKY78070, SKY78071, SKY78072

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

Highly Flexible, Customizable Family of Solutions
Consumer Electronics
Skyworks technology makes it possible to stream movies and music on demand, share files, play games and much more. And as the demand for increased speed, flexibility and capacity increases, Skyworks is innovating new solutions to meet this need. We are proud that our connectivity solutions meet the standards for multi-stream (MIMO) configuration in WLAN 802.11a,b,g,n, and high-throughput 802.11ac.

2 GHz WLAN Front-end Module for High-power 802.11ac Applications
SKY85309-11
- Fully-matched input and output
- Integrated power detector and directional coupler
- Transmit / receive gain: 32 / 12 dB
- Output power: 22 dBm @ 1.8% EVM, HT40, MCS9, 5 V;
  24 dBm @ 3% EVM, HT40, MCS7, 5 V
- Packaging: QFN 24L 3 x 5 x 0.85 mm

5 GHz WLAN Front-end Module for High-power 802.11ac Applications
SKY85710-11
- Fully-matched input and output
- Integrated power detector and directional coupler
- Transmit / receive gain: 31 / 12 dB
- Output power: 21 dBm @ 1.8% EVM, HT40, MCS9, 5 V;
  22 dBm @ 3% EVM, HT40, MCS7, 5 V
- Packaging: QFN 24L 3 x 5 x 0.85 mm

5 GHz WLAN Front-end Module for High-power 802.11ac Applications
SKY85712-11
- Fully-matched input and output
- Integrated power detector and directional coupler
- Transmit / receive gain: 28 / 12 dB
- Output power: 19 dBm @ 1.8% EVM, HT40, MCS9, 5 V;
  20 dBm @ 3% EVM, HT40, MCS7, 5 V
- Packaging: QFN 16L 3 x 3 x 0.55 mm
**Consumer Electronics**

Skyworks technology makes it possible to stream movies and music on demand, share files, play games and much more. And as the demand for increased speed, flexibility and capacity increases, Skyworks is innovating new solutions to meet this need. We are proud that our connectivity solutions meet the standards for multi-stream (MIMO) configuration in WLAN 802.11a,b,g,n, and high-throughput 802.11ac.

**Dual-band 802.11a/g/n/ac Wireless LAN Front-end for Media Applications**

**SKY85806**
- Integrated dual-band 5 GHz PA, LNA, T/R switch, filters, and diplexers
- Power: 5 GHz, 17 dBm, MCS9, HT80
  2 GHz, 17 dBm, MCS9, HT40
- Single supply voltage: 3.3 V ±10%
- Sleep mode: < 1 μA
- Bluetooth® ready; functional when Vcc = 0 V or 3.3 V
- Multiple receive bypass step attenuation
- Packaging: QFN 28L 4 x 3 x 0.8 mm

**Wearables**

Health-focused watches, glasses, and fitness trackers measure our daily activities, calculating steps taken, calories burned, and other personal data.

Innovations from Skyworks are designed to pack high-performance semiconductors into compact, wearable sizes.

**Bluetooth® Low Energy Front-end Modules for Wearable Applications**

**SKY66110-11, SKY66111-11**
- Operating range: 2.4 to 2.485 GHz
- Low power consumption
- Output:10 dBm
- Supply operation:1.8 to 5 V
- Low sleep current
- Rx bypass
- Packaging: MCM 20-pin 3.3 x 3.0 x 0.8 mm
Wireless Infrastructure

Skyworks products are at work in wireless infrastructure systems that connect people with each other and the information they need.
Our portfolio includes components and subsystems from the antenna connection to the baseband output.

695 to 866 MHz Variable Gain Amplifier for WCDMA Base Station Applications

**SKY65388-11**
- High gain: > 25 dB
- Attenuation range: > 30 dB
- OP dBm: > 26 dBm
- ACLR < -68 dBc for \( P_{\text{OUT}} = 8 \) dBm
- Single DC supply: 5 V
- Packaging: MCM 12-pin 8 x 8 x 1.3 mm

High Linearity, Active Bias Low Noise Variable Gain Amplifier for Wireless Applications

**SKY65372-11**
- Frequency range: 699 to 748 MHz
- High gain: 42 dB
- Excellent return loss: > 20 dB
- High linearity gain control > 35 dB
- Low noise figure: 0.8 dB
- Switchable high/low gain state modes
- Packaging: MCM 16-pin 8 x 8 x 1.3 mm

High Linearity, Active Bias Low Noise Variable Gain Amplifier for Wireless Applications

**SKY65376-11**
- Frequency range: 2500 to 2570 MHz
- High gain: 40 dB
- Excellent return loss: > 20 dB
- High linearity gain control > 35 dB
- Low noise figure: 1.1 dB
- Switchable high/low gain state modes
- Packaging: MCM 16-pin 8 x 8 x 1.3 mm
**Automotive**

From delivering turn-by-turn directions to finding your favorite restaurant, the connected car has become one of Skyworks’ automotive solutions enabling new convenience and safety features in everything from remote keyless entry, to collision avoidance, toll transponders, garage door openers, lighting, infotainment, video displays, vehicle tracking and telematics.

---

**High Isolation Switching PIN Diode for In-vehicle Infotainment (IVI) Applications**

**SMPA1320-079LF**

- AEC-Q101 qualified
- ISO/TS16949 certified facility
- Low resistance: 0.75 Ω typical @ 10 mA
- Low capacitance: 0.23 pF typical @ 30 V
- Packaging: SC-79 2L 2 x 2 x 0.2 mm

---

**SMT Schottky Diode for In-vehicle Platform Mixer / Detector Applications**

**SMSA3923-011LF**

- AEC-Q101 qualified
- ISO/TS16949 certified facility
- Ideal for general purpose RF detector and mixer devices
- Fully characterized, including spice models
- Tight $V_f$ distribution device
- Packaging: SOD-323 4L 2 x 1.35 x 1.1 mm

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**Hyperabrupt Junction Tuning Varactor for Wireless System and Infotainment Applications**

**SMVA1470-004LF**

- AEC-Q101 qualified
- ISO/TS16949 certified facility
- Dual hyperabrupt tuning varactor
- High capacitance ratio, low Rs
- Ideal for low noise VCOs
- Packaging: Dual-die SOT-23 3L 2.37 x 2.92 x 1 mm
Low-threshold PIN Diode Limiter for Automotive, GPS, and Military Applications

**SKY16602-632LF**

- Operating range: 0.2 to 4.0 GHz
- Low limiting threshold: 5 dBm typical
- Low insertion loss
- Low distortion
- Integrated PIN limiter and Schottky diodes, and DC blocks
- Package: QFN 2L 2.3 x 2.3 x 0.55 mm

High Linearity, Active Bias LNA for L and S Band Military Radio Applications

**SKY67103-396LF**

- High gain: 16.5 dB @ 3.6 GHz
- Low noise figure: 0.7 dB @ 3.6 GHz
- High IIP3 performance: 17.8 dBm @ 3.6 GHz
- Return loss >17.5 dB @ 3.6 GHz
- Adjustable supply current and gain
- Flexible bias voltage: 3 to 5 V
- Adjustable supply current from 30 mA to 100 mA
- Package: DFN 8L 2 x 2 x 0.75 mm

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**Aerospace and Defense**

Skyworks’ portfolio of RF/microwave products support a broad array of mission-critical communication and radar applications including avionics systems, electronic countermeasures, electronic warfare platforms, global positioning devices and land mobile radios.
Specifications for All New and Featured Products

Specifications tables for all of our latest products are provided on the following pages. New products are continually being introduced at Skyworks. For the latest information, please visit the New Products section of our website at http://www.skyworksinc.com/Products_whatsnew.aspx. Featured products from our broad portfolio can be viewed at http://www.skyworksinc.com/Products_Featured.aspx.

## Amplifiers

### Cellular Power Amplifiers

#### LTE PAs

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#### CDMA PAs

##### Other Bands

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## Specifications for All New and Featured Products

### Amplifiers

#### WCDMA PAs

**Multiband Modules—Bands 1, 2, 5, 8**

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**SKY7769**

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#### Multimode Multiband (MMMB) PAs

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**SKY77621-51**

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<td>703–803</td>
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### Multimode Multiband (MMMB) PAs

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description</th>
<th>Typical PAE (%)</th>
<th>Typical $I_{\text{max}}$ (mA)</th>
<th>Typical Gain (dB)</th>
<th>Supply Voltage (V)</th>
<th>Package (mm)</th>
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<tbody>
<tr>
<td>SKY77627-11</td>
<td>824–849 GSM/EDGE850</td>
<td>Multiband/Multimode PAM</td>
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<tr>
<td></td>
<td>880–915 GSM/EDGE900</td>
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<td>1710–1755 GSM/EDGE1800</td>
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<td>880–915 WCDMA/LTE Band 8</td>
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<td>704–716 LTE Band 17</td>
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<td>832–862 LTE Band 20</td>
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<td>703–748 LTE Band 28</td>
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<td>1880–1920 LTE / TD-SCDMA Band 39</td>
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<td>2010–2025 TD-SCDMA Band 44</td>
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<tr>
<td>SKY77633</td>
<td>–</td>
<td>MMMB PAM for Quad-band GSM / EDGE – Hepta-Band (1, 2, 3, 4, 5, 8, 10) WCDMA / HSDPA / HSUPA / HSPA+ / LTE</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>42-pad MCM</td>
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<td>SKY77646</td>
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<td>Multiband/Multimode PA for Quad-band GSM / EDGE - WCDMA / HSDPA / HSUPA / HSPA+ / LTE Bands 1, 2, 3, 4, 5, 8, 12, 13, 17, 20, 26, 28, 34, 39</td>
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<td>42-pad MCM</td>
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<td>SKY77647</td>
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<td>Multiband/Multimode PA for Quad-band GSM / EDGE - WCDMA / HSDPA / HSUPA / HSPA+ / LTE Bands 1, 2, 3, 4, 5, 8, 12, 13, 17, 20, 26, 28, 34, 39</td>
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<tr>
<td>SKY77648</td>
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<td>Multiband/Multimode PA for Quad-band GSM / EDGE - WCDMA / HSDPA / HSUPA / HSPA+ / LTE Bands 1, 2, 3, 4, 5, 8, 12, 13, 17, 20, 26, 28, 34, 39</td>
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<td>–</td>
<td>–</td>
<td>42-pad MCM</td>
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<td>7 x 5 x 0.8</td>
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# Amplifiers

## WiFi Connectivity Amplifiers

### 2.5 GHz Power Amplifiers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency Range (GHz)</th>
<th>Test Frequency (GHz)</th>
<th>Typ. Gain (dB)</th>
<th>OIP3 (dBm)</th>
<th>$V_{DD}$ (V)</th>
<th>Typ. Noise Figure (dB)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY85004-11</td>
<td>2.4–2.5</td>
<td>2.45</td>
<td>29</td>
<td>–</td>
<td>3.0–4.6</td>
<td>–</td>
<td>Flip Chip Die 12-bump, 0.84 x 0.6</td>
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</table>

### 2.5 GHz Low Noise Amplifiers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency Range (GHz)</th>
<th>Test Frequency (GHz)</th>
<th>Typ. Gain (dB)</th>
<th>OIP3 (dBm)</th>
<th>$V_{DD}$ (V)</th>
<th>Typ. Noise Figure (dB)</th>
<th>Package (mm)</th>
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</thead>
<tbody>
<tr>
<td>SKY85203-11</td>
<td>2.4–2.5</td>
<td>14</td>
<td>14</td>
<td>–</td>
<td>3.6</td>
<td>2</td>
<td>12-pin QFN 2 x 2 x 0.6</td>
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<tr>
<td>SKY85204-11</td>
<td>2.4–2.5</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>Flip Chip Die 11-bump, 0.76 x 0.97</td>
</tr>
<tr>
<td>SKY85207-11</td>
<td>2.4–2.5</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>8-pin DFN 1.5 x 1.5 x 0.33</td>
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### 5 GHz Low Noise Amplifiers

<table>
<thead>
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<th>Part Number</th>
<th>Frequency Range (GHz)</th>
<th>Test Frequency (GHz)</th>
<th>Typ. Gain (dB)</th>
<th>OIP3 (dBm)</th>
<th>$V_{DD}$ (V)</th>
<th>Typ. Noise Figure (dB)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY85611-11</td>
<td>4.9–5.925</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>11-bump Flip Chip Die 0.76 x 0.97 x 0.30</td>
</tr>
<tr>
<td>SKY85613-11</td>
<td>4.9–5.925</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>6-pin DFN 1.2 x 1.4 x 0.33</td>
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## Broad Market Low Noise Amplifiers (LNAs) and Low Noise Transistors

### Low Noise Amplifiers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency Range (GHz)</th>
<th>Test Frequency (GHz)</th>
<th>Typ. Gain (dB)</th>
<th>OIP3 (dBm)</th>
<th>$V_{DD}$ (V)</th>
<th>Typ. Supply Current (mA)</th>
<th>Typ. Noise Figure (dB)</th>
<th>Package (mm)</th>
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<tbody>
<tr>
<td>SKY67103-396LF</td>
<td>0.5–4</td>
<td>3.6</td>
<td>16.5</td>
<td>34.3</td>
<td>17.4</td>
<td>5</td>
<td>0.7</td>
<td>8-pin DFN 2 x 2 x 0.75</td>
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## BDS / GPS / GNSS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency Range (GHz)</th>
<th>Test Frequency (GHz)</th>
<th>Description</th>
<th>Gain (dB)</th>
<th>$V_{DD}$ (V)</th>
<th>IP1 dB (dBm)</th>
<th>NF (dB)</th>
<th>Package (mm)</th>
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<tbody>
<tr>
<td>SKY65605-21</td>
<td>1550–1601.8</td>
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<td>BDS / GPS / GNSS Low Noise Amplifier</td>
<td>19</td>
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<td>-14</td>
<td>0.75</td>
<td>6-pin QFN 0.7 x 1.1 x 0.55</td>
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<tr>
<td>SKY65611-11</td>
<td>–</td>
<td>–</td>
<td>GPS / GLONASS / Galileo / BDS Low Noise Amplifier</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>6-pin DFN 2 x 1.3 x 0.45</td>
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### Amplifiers

#### Variable Gain Amplifiers (VGAs)

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<thead>
<tr>
<th>Part Number</th>
<th>Operating Frequency (MHz)</th>
<th>Architecture</th>
<th>Attenuator</th>
<th>Control Range (dB)</th>
<th>Step Size (dB)</th>
<th>Gain (dB)</th>
<th>Min. NF (dB)</th>
<th>IP3 (dBm)</th>
<th>P1 dB (dBm)</th>
<th>VCC (V)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY65372-11</td>
<td>699–748</td>
<td>Single Channel</td>
<td>Analog</td>
<td>&gt;35</td>
<td>Analog</td>
<td>42</td>
<td>0.8</td>
<td>2</td>
<td>-10</td>
<td>5</td>
<td>16-pin MCM 8 x 8 x 1.3</td>
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<tr>
<td>SKY65375-11</td>
<td>1920–1980</td>
<td>Single Channel</td>
<td>Analog</td>
<td>&gt;35</td>
<td>Analog</td>
<td>43</td>
<td>0.9</td>
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<td>-5.5</td>
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<td>16-pin MCM 8 x 8 x 1.3</td>
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<tr>
<td>SKY65376-11</td>
<td>2500–2570</td>
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<td>Analog</td>
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<td>1.1</td>
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<td>5</td>
<td>16-pin MCM 8 x 8 x 1.3</td>
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<tr>
<td>SKY65388-11</td>
<td>695–866</td>
<td>Single Channel</td>
<td>Analog</td>
<td>34</td>
<td>N/A</td>
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<td>4.5</td>
<td>43</td>
<td>26</td>
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#### Attenuators

#### Digital

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<th>Part Number</th>
<th>Frequency (GHz)</th>
<th>Control Bits / Interface</th>
<th>Attenuation Range (dB)</th>
<th>LSB Attenuation (dB)</th>
<th>Typ. IL (dB)</th>
<th>Typ. IIP3 (dBm)</th>
<th>Typ. P1 dB (dBm)</th>
<th>Package (mm)</th>
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<tr>
<td>SKY12361-350LF</td>
<td>0.1–3.7</td>
<td>4/P</td>
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<td>1</td>
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#### Limiter Diodes

**Core Components for Receiver Protection Applications**

#### Limiter Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>RF Test Freq. (GHz)</th>
<th>Typ. Insertion Loss (dB)</th>
<th>P1 dB = 0 dBm</th>
<th>Typ. Return Loss (dB)</th>
<th>Pm = 0 dBm</th>
<th>Typ. Threshold Level (dBm)</th>
<th>Maximum Saturated Power (Watts)</th>
<th>Typ. Flat Leakage Power (dBm) Pm = 10 dBm</th>
<th>Package (mm)</th>
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<tbody>
<tr>
<td>SKY16602-632LF</td>
<td>0.9</td>
<td>0.3</td>
<td>0.5</td>
<td>14</td>
<td>6</td>
<td>5</td>
<td>30</td>
<td>6</td>
<td>QFN 2L</td>
</tr>
<tr>
<td></td>
<td>2.45</td>
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<td></td>
<td>14</td>
<td>6</td>
<td>5</td>
<td>30</td>
<td>6</td>
<td>QFN 2L</td>
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</table>

#### Limiter Diodes

<table>
<thead>
<tr>
<th>Part Number</th>
<th>RF Test Freq. (GHz)</th>
<th>Typ. Insertion Loss (dB)</th>
<th>P1 dB = 0 dBm</th>
<th>Typ. Threshold Level (dBm)</th>
<th>Maximum Saturated Power (Watts)</th>
<th>Vb (µA)</th>
<th>I Regional Thickness Nominal (µm)</th>
<th>CT (30 V F = 1 MHz)</th>
<th>Max. Rl (100 MHz)</th>
<th>Carrier Lifetime Tl (ns) Ic = 10 mA</th>
<th>Package (mm)</th>
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<tbody>
<tr>
<td>CLA4611-085LF</td>
<td>2.6</td>
<td>0.3</td>
<td>25</td>
<td>10</td>
<td>120–180</td>
<td>10</td>
<td>12</td>
<td>0.65</td>
<td>1.2</td>
<td>450</td>
<td>QFN 3L</td>
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Superior Building Blocks for Switch and Attenuator Applications

**Switching Silicon PIN Diodes**

AEC-Q101 Qualified*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Min. $V_0$</th>
<th>Max. $C_1$</th>
<th>Typ. $V_0$</th>
<th>Max. $R_s$</th>
<th>Max. $R_s$</th>
<th>Max. $R_s$</th>
<th>Typical Carrier Lifetime</th>
<th>Package (mm)</th>
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<tbody>
<tr>
<td>SMPA1302-079LF</td>
<td>200</td>
<td>0.3</td>
<td>0.80</td>
<td>20</td>
<td>3</td>
<td>1.5</td>
<td>700</td>
<td>QFN 2L 2 x 2 x 0.9</td>
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<tr>
<td>SMPA1320-079LF</td>
<td>50</td>
<td>0.3</td>
<td>0.85</td>
<td>2</td>
<td>0.9</td>
<td>–</td>
<td>400</td>
<td>QFN 2L 2 x 2 x 0.2</td>
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</table>

**Attenuator PIN Diodes**

AEC-Q101 Qualified*

<table>
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<tr>
<th>Part Number</th>
<th>Min. $V_0$</th>
<th>Max. $C_1$</th>
<th>Typ. $V_0$</th>
<th>Max. $R_s$</th>
<th>Max. $R_s$</th>
<th>Max. $R_s$</th>
<th>Typical Carrier Lifetime</th>
<th>Package (mm)</th>
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<tbody>
<tr>
<td>SMPA1302-079LF</td>
<td>200</td>
<td>0.30</td>
<td>0.80</td>
<td>20</td>
<td>3</td>
<td>1.5</td>
<td>700</td>
<td>QFN 2L 2 x 2 x 0.9</td>
</tr>
<tr>
<td>SMPA1304-011LF</td>
<td>200</td>
<td>0.30</td>
<td>0.80</td>
<td>50</td>
<td>7</td>
<td>2.0</td>
<td>1000</td>
<td>SOD 2L 2.52 x 1.25 x 1.04</td>
</tr>
</tbody>
</table>

**Schottky Diodes**

Designed for High Performance, High Volume and Cost Sensitive Mixer and Detector Applications

**Schottky Diodes**

AEC-Q101 Qualified*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Min. $V_0$</th>
<th>Max. $C_1$ @ 0 V</th>
<th>Typ. $I_s$</th>
<th>Typ. $C_1$ @ 0.15 V</th>
<th>$V_0$ @ 1 mA</th>
<th>$V_0$ @ 0.1 mA</th>
<th>Max. $V_0$ @ 35 mA</th>
<th>Series Resistance (Ω)</th>
<th>Video Resistance @ 0 V (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMSA3923-011LF</td>
<td>20</td>
<td>1.23</td>
<td>500 @ 15 V Max.</td>
<td>–</td>
<td>370</td>
<td>–</td>
<td>1000</td>
<td>11</td>
<td>–</td>
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<tr>
<td>SMSA7621-060</td>
<td>2</td>
<td>0.18</td>
<td>–</td>
<td>–</td>
<td>260-320</td>
<td>–</td>
<td>–</td>
<td>12</td>
<td>–</td>
</tr>
<tr>
<td>SMSA7630-061</td>
<td>1</td>
<td>–</td>
<td>0.3</td>
<td>135–240</td>
<td>60–120</td>
<td>–</td>
<td>–</td>
<td>3000–7000</td>
<td>–</td>
</tr>
</tbody>
</table>

*Not all stresses listed within AEC-Q101 have been performed. Qualification report available upon request.

Contact your sales representative for more information. For the full details of Skyworks Quality and Reliability on our products that can be designed into automotive applications, please view the “Skyworks Quality Standards for Automotive Customers” on our website.
Ideal for VCO, VCXO, Tunable Filters and Phase Shifter Products

Wide Tuning Range (Hyperabrupt) Varactor Diodes

AEC-Q101 Qualified*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Type C, VR = 1 V (pF)</th>
<th>Type C, VR = 4 V (pF)</th>
<th>Type C, VR = 8 V (pF)</th>
<th>Type C, VR = 12 V (pF)</th>
<th>Type C, VR = 20 V (pF)</th>
<th>Min. C, (Ratio)</th>
<th>Capacitance Ratio Range (V)</th>
<th>Max. R, Series Resistance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMVA1211-001LF</td>
<td>12</td>
<td>98.6</td>
<td>19.4</td>
<td>10.5</td>
<td>–</td>
<td>5</td>
<td>1 to 4</td>
<td>0.4</td>
</tr>
<tr>
<td>SMVA1248-079LF</td>
<td>15</td>
<td>12.33</td>
<td>1.71</td>
<td>1.3</td>
<td>–</td>
<td>–</td>
<td>10.8</td>
<td>0.3 to 4.7</td>
</tr>
<tr>
<td>SMVA1253-079LF</td>
<td>15</td>
<td>37.07</td>
<td>4.86</td>
<td>3.28</td>
<td>–</td>
<td>–</td>
<td>11</td>
<td>0.3 to 4.7</td>
</tr>
<tr>
<td>SMVA1470-004LF</td>
<td>10</td>
<td>71.3</td>
<td>16.3</td>
<td>7.9</td>
<td>–</td>
<td>–</td>
<td>5</td>
<td>1 to 5</td>
</tr>
<tr>
<td>SMVA1705-004LF</td>
<td>12</td>
<td>18.3</td>
<td>6.1</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>2.8</td>
<td>1 to 4</td>
</tr>
</tbody>
</table>

*Not all stresses listed within AEC-Q101 have been performed. Qualification report available upon request.

Contact your sales representative for more information. For the full details of Skyworks Quality and Reliability on our products that can be designed into automotive applications, please view the “Skyworks Quality Standards for Automotive Customers” on our website.

Front-end Modules

SkyOne®

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY78027-12</td>
<td>824–849</td>
<td>GSM850</td>
<td>60-pin MCM</td>
</tr>
<tr>
<td></td>
<td>880–915</td>
<td>GSM900</td>
<td>8 x 9 x 0.9</td>
</tr>
<tr>
<td></td>
<td>1710–1785</td>
<td>DCS1800</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1850–1910</td>
<td>PCS1900</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1920–1980</td>
<td>Band 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1850–1910</td>
<td>Band 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1710–1785</td>
<td>Band 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>824–849</td>
<td>Band 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>880–915</td>
<td>Band 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>832–862</td>
<td>Band 10</td>
<td></td>
</tr>
</tbody>
</table>

| SKY78041     | –               | SkyOne® Ultra Front-end Module for WCDMA / LTE Bands 26, 8, 12, 20, 13, GSM / EDGE 850 / 900 MHz | 48-pad MCM | 7.5 x 6.0 x 0.9 |
| SKY78042     | –               | SkyOne® Ultra Front-end Module for WCDMA / LTE Bands 26, 8, 12, 20, 28A, 28B, and GSM / EDGE 850/900 MHz | 48-pad MCM | 7.5 x 6.0 x 0.9 |
| SKY78070     | –               | SkyOne® Quad-band GSM / GPRS / EDGE / WCDMA / HSPA / HSPA+ / FDD LTE (Bands 1, 2, 3, 4, 5, 8, 12/17, 13, 20, 27, 28) / TD-SCDMA / TD LTE (Bands 34, 39) | 56-pad MCM | 5 x 7 x 0.9 |
| SKY78071     | –               | SkyOne® Quad-band GSM / GPRS / EDGE / WCDMA / HSPA / HSPA+ / FDD LTE (Bands 1, 2, 3, 4, 5, 8, 12/17, 13, 20, 27, 28) / TD-SCDMA / TD LTE (Bands 34, 39) | 56-pad MCM | 5 x 7 x 0.9 |
| SKY78072     | –               | SkyOne® Quad-band GSM / GPRS / EDGE / WCDMA / HSPA / HSPA+ / FDD LTE (Bands 1, 2, 3, 4, 5, 8, 12/17, 13, 20, 27, 28) / TD-SCDMA / TD LTE (Bands 34, 39) | 56-pad MCM | 5 x 7 x 0.9 |
# Front-end Modules

## SkyLiTE™ Front-end Solutions

**Powering Next Generation Chipsets for Emerging Markets**

The SkyLiTE™ family of LTE devices consist of highly integrated modules that incorporate the amplification, switching, Wi-Fi filtering and coupler functionality required to support all major FDD/TDD bands. With the addition of external duplexers, this product suite provides OEMs with a scalable and reconfigurable front-end system suitable for markets worldwide.

### Cellular Power Amplifiers

#### LTE PAs

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description</th>
<th>Typical PAE (%)</th>
<th>Typical Gain (dB)</th>
<th>Typical Linear LTE Power (dBm)</th>
<th>Supply Voltage (V)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY77824-11</td>
<td>2500–2570</td>
<td>PAM for LTE FDD Band 7, Band 30, LTE TDD Bands 38/41, and 40, and AXGP Band</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>28-pad MCM</td>
</tr>
<tr>
<td></td>
<td>2500–2570</td>
<td>LTE Band 7</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 3.65 x 0.8</td>
</tr>
<tr>
<td></td>
<td>2305–2315</td>
<td>LTE Band 30</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 3.65 x 0.8</td>
</tr>
<tr>
<td></td>
<td>2496–2690</td>
<td>LTE Band 38/41</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 3.65 x 0.8</td>
</tr>
<tr>
<td></td>
<td>2300–2400</td>
<td>LTE Band 40</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 3.65 x 0.8</td>
</tr>
<tr>
<td></td>
<td>2545–2575</td>
<td>AXGP Band</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 3.65 x 0.8</td>
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</tbody>
</table>

### Multimode Multiband (MMMB) PAs

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description</th>
<th>Typical PAE (%)</th>
<th>Typical I_{MAX} (mA)</th>
<th>Typical Gain (dB)</th>
<th>Supply Voltage (V)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY77643-11</td>
<td>–</td>
<td>Multiband/Multimode PAM</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>42-pad MCM</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>WCDMA Band 1, 2, 3, 4, 5, 8, and 9</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 6.8 x 0.8</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>FDD LTE Band 1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 17, 20, 28, and 30</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 6.8 x 0.8</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>TD-SCDMA Band 34 and 39</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 6.8 x 0.8</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>TDD LTE Bands 38, 39, 40, 41</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4 x 6.8 x 0.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY77641</td>
<td>–</td>
<td>Multiband/Multimode PA</td>
<td>42-pad MCM</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>WCDMA Bands 1, 2, 3, 4, 5, 8, 9</td>
<td>4 x 6.8 x 0.8</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>TD-SCDMA Bands 34, 39</td>
<td>4 x 6.8 x 0.8</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>FDD LTE Bands 1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 17, 20, 28, 30</td>
<td>4 x 6.8 x 0.8</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>TDD LTE Bands 38, 39, 40, 4</td>
<td>4 x 6.8 x 0.8</td>
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</table>

### Front-end Modules for Cellular

#### TD-SCDMA Front-end Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY77910-21</td>
<td>–</td>
<td>SkyLiTE™ Tx-Rx FEM for Quad-band GSM / GPRS / EDGE with 8 Linear TRx Switch Ports, Dual-band TD-SCDMA, and TDD LTE Band 39</td>
<td>38-pad MCM</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>5.5 x 5.3 x 0.8</td>
<td></td>
</tr>
<tr>
<td>SKY77912-21</td>
<td>–</td>
<td>SkyLiTE™ Tx-Rx FEM for Quad-band GSM / GPRS / EDGE with 10 Linear TRx Switch Ports, Dual-band TD-SCDMA, and TDD LTE Band 39</td>
<td>38-pad MCM</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>5.5 x 5.3 x 0.8</td>
<td></td>
</tr>
<tr>
<td>SKY77916-21</td>
<td>–</td>
<td>Tx-Rx FEM for Quad-band GSM / GPRS / EDGE with 14 Linear TRx Switch Ports, Dual-band TD-SCDMA, and TDD LTE Band 39</td>
<td>38-pad MCM</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>5.5 x 5.3 x 0.8</td>
<td></td>
</tr>
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</table>
# Front-end Modules

## Cellular

### GSM / GPRS Front-end Modules

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<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description</th>
<th>Typ. Output Power GSM (dBm)</th>
<th>Typical PAE (%)</th>
<th>Supply Voltage (V)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY77585</td>
<td>824–849</td>
<td>Tx-Rx Quad-band FEM for GSM / GPRS with Six Linear TRx Switch Ports</td>
<td>–</td>
<td>–</td>
<td>3.0–4.5</td>
<td>28-pin MCM 6 x 6 x 0.9</td>
</tr>
<tr>
<td></td>
<td>880–915</td>
<td>GSM900</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>1710–1785</td>
<td>DCS1800</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1850–1910</td>
<td>PCS1900</td>
<td></td>
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<td></td>
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## BDS / GPS / GNSS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency Range (GHz)</th>
<th>Test Frequency (GHz)</th>
<th>Description</th>
<th>Gain (dB)</th>
<th>V_{DD} (V)</th>
<th>IP_{1dB} (dBm)</th>
<th>NF (dB)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY65713-11</td>
<td>–</td>
<td>–</td>
<td>GPS/GNSS/GNSS Pre-Filter + LNA Front-end Module</td>
<td>15</td>
<td>1.5–2.85</td>
<td>–</td>
<td>1.8</td>
<td>8-pin MCM 1.5 x 1.5 x 0.7</td>
</tr>
<tr>
<td>SKY65715-81</td>
<td>–</td>
<td>–</td>
<td>GPS/GNSS/GNSS Pre-Filter + LNA Front-end Module</td>
<td>15</td>
<td>1.5–2.85</td>
<td>–</td>
<td>1.8</td>
<td>6-pin MCM 1.7 x 2.3 x 0.7</td>
</tr>
<tr>
<td>SKY65903-11</td>
<td>–</td>
<td>–</td>
<td>GPS/GNSS/GNSS Pre- and Post-Filters + LNA Front-end Module</td>
<td>14</td>
<td>1.5–2.85</td>
<td>–</td>
<td>1.8</td>
<td>16-pin MCM 2.5 x 2.5 x 0.7</td>
</tr>
</tbody>
</table>
# Front-end Modules for Cellular

## TD-SCDMA Front-end Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY77570-12</td>
<td>824–849, 880–915, 1710–1785, 1850–1910, 2010–2025, 1880–1920</td>
<td>Tx-Rx FEM for Quad-band QSM / OPRS / EDGE with Six Linear TRx Switch Ports and Dual-band TD-SCDMA</td>
<td>42-pad MCM, 6 x 6 x 0.9</td>
</tr>
</tbody>
</table>

## High Throw Count Antenna Switch Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Description (Absorptive/Reflective)</th>
<th>Typ. IL (dB)</th>
<th>Typ. Isol. (dB)</th>
<th>Typ. IIP3 (dBm)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY13455-31</td>
<td>0.4–2.7</td>
<td>SP12T (R)</td>
<td>0.6–1.25</td>
<td>22–43</td>
<td>–</td>
<td>22-pin MCM, 3.2 x 2.5 x 0.8</td>
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## WiFi Connectivity

### 2.5 GHz Front-end Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (GHz)</th>
<th>802.11 WLAN Standard</th>
<th>Antenna Ports</th>
<th>Architecture</th>
<th>Typ. Pout @ 1.8% EVM (dBm)</th>
<th>Typ. Pout @ 3% EVM (dBm)</th>
<th>Typ. Tx Gain (dB)</th>
<th>Vcc (V)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY85309-11</td>
<td>2.4–2.5 ac 1</td>
<td>WLAN Front-end Module</td>
<td></td>
<td></td>
<td>22</td>
<td>24</td>
<td>32</td>
<td>5</td>
<td>24-pin QFN 3 x 5 x 0.85</td>
</tr>
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</table>

### 5 GHz Front-end Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (GHz)</th>
<th>802.11 WLAN Standard</th>
<th>Antenna Ports</th>
<th>Architecture</th>
<th>Typ. Pout @ 1.8% EVM (dBm)</th>
<th>Typ. Pout @ 3% EVM (dBm)</th>
<th>Typ. Tx Gain (dB)</th>
<th>Vcc (V)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY85710-11</td>
<td>5.15–5.85 ac 1</td>
<td>WLAN Front-end Module</td>
<td></td>
<td></td>
<td>21</td>
<td>22</td>
<td>31</td>
<td>5</td>
<td>24-pin QFN 3 x 5 x 0.85</td>
</tr>
<tr>
<td>SKY85711-21</td>
<td>5.15–5.85 ac 1</td>
<td>5 GHz WLAN Front-end Module</td>
<td></td>
<td></td>
<td>–</td>
<td>20</td>
<td>27</td>
<td>5</td>
<td>16-pin QFN 2.5 x 2.5 x 0.45</td>
</tr>
<tr>
<td>SKY85712-11</td>
<td>5.15–5.85 ac 1</td>
<td>5 GHz WLAN Front-end Module</td>
<td></td>
<td></td>
<td>17</td>
<td>18</td>
<td>27</td>
<td>3.3</td>
<td>16-pin QFN 3 x 3 x 0.55</td>
</tr>
<tr>
<td>SKY85712-21</td>
<td>5.15–5.85 ac 1</td>
<td>5 GHz WLAN Front-end Module</td>
<td></td>
<td></td>
<td>19</td>
<td>20</td>
<td>27</td>
<td>5</td>
<td>16-pin QFN 3 x 3 x 0.55</td>
</tr>
<tr>
<td>SKY85716-11</td>
<td>5.15–5.85 ac 1</td>
<td>5 GHz Front-end Module</td>
<td></td>
<td></td>
<td>17</td>
<td>18</td>
<td>30</td>
<td>3.3</td>
<td>16-pin QFN 2.3 x 2.3 x 0.33</td>
</tr>
<tr>
<td>SKY85717-11</td>
<td>– ac 1</td>
<td>5 GHz WLAN Front-end Module</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>16-pin QFN 2.5 x 2.5 x 0.4</td>
</tr>
<tr>
<td>SKY85717-21</td>
<td>– ac 1</td>
<td>5 GHz WLAN Front-end Module</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>16-pin QFN 2.5 x 2.5 x 0.4</td>
</tr>
</tbody>
</table>

### Dual-band

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (GHz)</th>
<th>802.11 WLAN Standard</th>
<th>Antenna Ports</th>
<th>Architecture</th>
<th>Typ. Current @ Vcc = 3.3 V (mA)</th>
<th>Typ. Pout (dBm)</th>
<th>Typ. Tx Gain (dB)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY85806-11</td>
<td>2.4–2.5 a g n ac 5.15–5.9 ac</td>
<td>802.11a/g/n/ac WLAN Front-end</td>
<td>1</td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>20-pin MCM 3.3 x 3.0 x 0.8</td>
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</table>

## Smart Energy—Connected Home and Automation 802.15.4, ISM, and ZigBee®

<table>
<thead>
<tr>
<th>Part Number</th>
<th>RF Frequency (MHz)</th>
<th>Typ. Rx Insertion Loss (dB)</th>
<th>Typ. Rx Gain (dB)</th>
<th>Tx Icc (mA)</th>
<th>Tx Gain (dB)</th>
<th>Typ. Saturated Output Power (dBm)</th>
<th>Supply Voltage (V)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY85362-11</td>
<td>900–930</td>
<td>3</td>
<td>16</td>
<td>33</td>
<td>30.5</td>
<td>3.55–5.25</td>
<td>36-pin MCM 6 x 6 x 0.9</td>
<td></td>
</tr>
<tr>
<td>SKY86110-11</td>
<td>2400–2485</td>
<td>0.9</td>
<td>-0.9</td>
<td>10</td>
<td>10</td>
<td>3</td>
<td>20-pin MCM 3.3 x 3 x 0.8</td>
<td></td>
</tr>
<tr>
<td>SKY86111-11</td>
<td>2400–2485</td>
<td>0.5</td>
<td>-0.5</td>
<td>10</td>
<td>10</td>
<td>3</td>
<td>20-pin MCM 3.3 x 3 x 0.8</td>
<td></td>
</tr>
</tbody>
</table>
# Front-end Modules

## Diversity Receive Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY13529-11</td>
<td>Rx Diversity Front-end Module with Gain</td>
<td>17-pin MCM</td>
</tr>
<tr>
<td>SKY13568-11</td>
<td>Rx Diversity Front-end Module with Gain</td>
<td>17-pin MCM</td>
</tr>
<tr>
<td>SKY13569-11</td>
<td>Rx Diversity Front-end Module with Gain</td>
<td>17-pin MCM</td>
</tr>
<tr>
<td>SKY13740</td>
<td>Rx Diversity Front-end Module with Gain</td>
<td>23-pin MCM</td>
</tr>
<tr>
<td>SKY13741</td>
<td>Rx Diversity Front-end Module with Gain</td>
<td>24-pin MCM</td>
</tr>
<tr>
<td>SKY13744-11</td>
<td>Rx Diversity Front-end Module with Gain</td>
<td>29-pin MCM</td>
</tr>
</tbody>
</table>

## Limiter Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>RF Test Freq. (GHz)</th>
<th>Typ. Insertion Loss (dB) Pin = 0 dBm</th>
<th>Typ. Return Loss (dB) Pin = 0 dBm</th>
<th>Typ. Threshold Level (dBm)</th>
<th>Maximum Saturated Power (Watts)</th>
<th>Typ. Flat Leakage Power (dBm) Pin = 10 dBm</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY16602-632LF</td>
<td>0.9 2.45</td>
<td>0.3 0.5</td>
<td>14 25</td>
<td>6</td>
<td>30</td>
<td>6</td>
<td>QFN 2L</td>
</tr>
</tbody>
</table>
## Power Management

### Voltage Regulation

**DC/DC Converters (Switching Regulators)**

**Step-down Converters**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Min. $V_{IN}$ (V)</th>
<th>Max. $V_{IN}$ (V)</th>
<th>Min. $V_{OUT}$ (V)</th>
<th>Max. $V_{OUT}$ (V)</th>
<th>$I_{OUT}$ (mA)</th>
<th>$f_{osc}$ (kHz)</th>
<th>Typ. $I_Q$ (µA)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY87006</td>
<td>2.5</td>
<td>5.1</td>
<td>0.40</td>
<td>3.6</td>
<td>3000</td>
<td>2500</td>
<td>206</td>
<td>1.62 x 1.54 x 0.689</td>
</tr>
</tbody>
</table>

### Display and Lighting

**White LED Drivers**

**Serial Boost White LED Backlight Drivers**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of LEDs</th>
<th>LED Channels</th>
<th>LEDs per Channel</th>
<th>Min. $V_{IN}$ (V)</th>
<th>Max. $V_{IN}$ (V)</th>
<th>Interface</th>
<th>Typ. $I_Q$ (µA)</th>
<th>Peak Efficiency</th>
<th>Current Accuracy (%)</th>
<th>Current Matching (%)</th>
<th>Max. $I_{OUT}$ per Channel (mA)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY82896</td>
<td>27</td>
<td>3</td>
<td>9</td>
<td>2.5</td>
<td>5.5</td>
<td>i2C, FPWM, DPWM</td>
<td>1000</td>
<td>89</td>
<td>±2</td>
<td>±2</td>
<td>30</td>
<td>WLCSP 16-bump 1.96 x 1.91 x 0.65</td>
</tr>
<tr>
<td>SKY82897</td>
<td>18</td>
<td>2</td>
<td>9</td>
<td>2.5</td>
<td>5.5</td>
<td>i2C, FPWM, DPWM</td>
<td>1000</td>
<td>89</td>
<td>±2</td>
<td>±2</td>
<td>30</td>
<td>WLCSP 16-bump 1.96 x 1.91 x 0.65</td>
</tr>
</tbody>
</table>

### Multi-Function Power Management Integrated Circuit (PMIC/PMU)

| Part Number | Battery Charger Type | Number of Switching Regulators | Number of LDO Regulators | Min. $V_{IN}$ (V) | Max. $V_{IN}$ (V) | Max. Regulator $V_{IN}$ (V) | Max. Charger $V_{IN}$ (V) | Max. Charger Protected $V_{IN}$ (V) | Single /Channel Output Current (mA) | Max. Step-up Output Voltage (V) | Output Voltage Control |
|-------------|-----------------------|-------------------------------|--------------------------|------------------|------------------|---------------------------|-----------------------------|-----------------------------------|-------------------------------|---------------------------|
| SKYA21004   | -                     | -                             | -                        | -                | -                | -                         | -                           | -                                 | -                            | -                         |

### Port Protection and Power Distribution

**Over Voltage Protection**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of Channels</th>
<th>Enable</th>
<th>Fault Flag</th>
<th>$I_{LIM}$ (mA)</th>
<th>Ampere Rating (mA)</th>
<th>Nominal Resistance (Ω)</th>
<th>Typ. $R_D(ON)$ (mΩ)</th>
<th>Nominal Power Dissipation (W)</th>
<th>Nominal Operating Voltage (V)</th>
<th>$V_{IN}$ (V)</th>
<th>Typ. $I_Q$ (µA)</th>
<th>Package (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY87604-11</td>
<td>1</td>
<td>No</td>
<td>No</td>
<td>-</td>
<td>750</td>
<td>0.466</td>
<td>-</td>
<td>0.284</td>
<td>63 VDC / 32 VAC</td>
<td>-</td>
<td>-</td>
<td>4L MCM 3 x 3 x 1.85</td>
</tr>
<tr>
<td>SKY87604-12</td>
<td>1</td>
<td>No</td>
<td>No</td>
<td>-</td>
<td>250</td>
<td>2.024</td>
<td>-</td>
<td>0.138</td>
<td>63 VDC / 32 VAC</td>
<td>-</td>
<td>-</td>
<td>4L MCM 3 x 3 x 1.85</td>
</tr>
<tr>
<td>SKY87604-13</td>
<td>1</td>
<td>No</td>
<td>No</td>
<td>-</td>
<td>375</td>
<td>1.247</td>
<td>-</td>
<td>0.183</td>
<td>63 VDC / 32 VAC</td>
<td>-</td>
<td>-</td>
<td>4L MCM 3 x 3 x 1.85</td>
</tr>
</tbody>
</table>