



**SKYWORKS®**

**Accelerating Automotive Experiences**

# Connected Vehicle Solutions

Groundbreaking, in-vehicle technologies and rapidly changing standards are being adopted at a pace previously unheard of in the automotive industry. With Skyworks as your partner, there is no need to worry. Our innovative portfolio takes seamless connectivity in today's cars to the next level – making the driving experience increasingly smarter and safer.

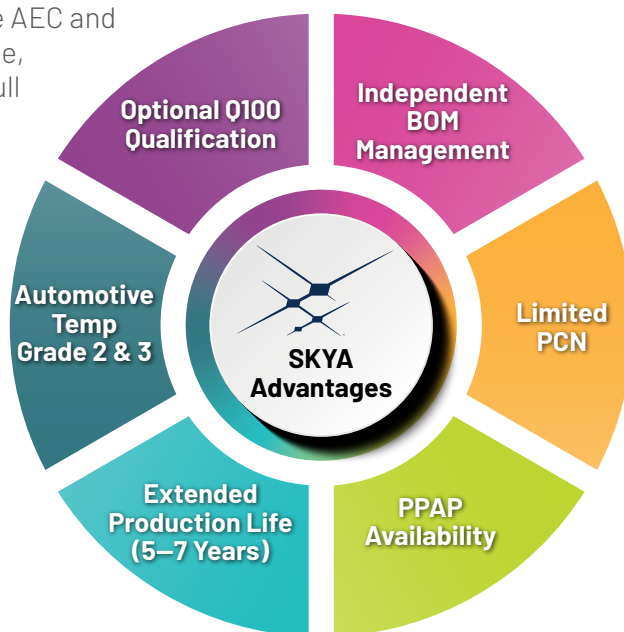
By leveraging our leadership and expertise in wireless to deliver cutting edge communication technologies such as 5G NR for cellular, vehicle-to-vehicle (V2V) communication and Wi-Fi 6 / 802.11ax to new vehicles, we can help you elevate the driver experience.



## About Our SKYA Portfolio

Skyworks has been a pioneer in automotive connectivity, developing a suite of products supporting standards between full automotive grade AEC and consumer grade JEDEC. Our new SKYA family fulfills these unique, non-mission critical industry requirements without the cost of full automotive qualification and support.

Skyworks is proud to have a selection of AEC-Q100 and/or AEC-Q101 qualified products.



## Featured Applications

### Cellular Telematics

- eCall / first responder accident notification
- In-cabin internet access
- GPS map updates
- Autonomous vehicle high resolution map updates
- Over-the-air (OTA) software updates
- Vehicle maintenance alerts / OEM notifications
- Security / theft prevention
- Remote keyless entry and vehicle start
- Geo-fencing
- Insurance discount monitoring

### In-cabin Wi-Fi / Bluetooth® Low Energy

- In-cabin internet access
- External vehicle to repair center, home, charging station
- Vehicle to cellular carrier owned access points (in urban environments to download sensor data from vehicle)
- Remote keyless entry (RKE)

### Vehicle-to-Vehicle Communication

- Accident avoidance

# Automotive Solutions by Application

**NEW** products (purple, bold) are continually being introduced at Skyworks. For the latest information, please visit the New Products section of our website at [www.skyworksinc.com](http://www.skyworksinc.com).

**Sampling** products (orange, bold) indicates products that are ready to be sent to our customers for system board bring up and evaluation.

**Coming Soon** products (blue, bold) indicates products that will be available soon for purchase.

Products marked with a white triangle (▲) denote primary application.

			Applications			
Part Number	Description	Automotive Qualification	General Purpose	Cellular	Wi-Fi	Vehicle-to-Everything
Antenna Switch Modules						
SKYA21052	0.7 to 2.7 GHz SP12T MIPI® Antenna Switch Module			▲		
SKYA21053	0.4 to 2.7 GHz SP6T LTE Transmit / Receive Switch with MIPI® RFFE Interface			▲		
SKYA21054	0.4 to 2.7 GHz SP8T MIPI® Diversity Switch			▲		
SKYA21060	DP12T Cellular Antenna Switch Module			▲		
SKYA21061	DP17T Cellular Antenna Switch Module			▲		
Diodes						
SMPA1302-079LF	Switch and Attenuator Plastic Packaged PIN Diode	AEC-Q101	▲			
SMPA1304-011LF	Low Distortion Attenuator Plastic Packaged PIN Diode	AEC-Q101	▲			
SMPA1320-079LF	Low Resistance, Low Capacitance, Plastic Packaged PIN Diode	AEC-Q101	▲			
SMPA1345-040LF	Very Low Capacitance, Plastic Packaged Silicon PIN Diode	AEC-Q101	▲			
SMSA3923-011LF	Surface Mount Mixer / Detector Schottky Diode	AEC-Q101	▲			
SMVA1248-079LF	Hyperabrupt Junction Tuning Varactor	AEC-Q101	▲			
SMVA1253-079LF	Hyperabrupt Junction Tuning Varactor	AEC-Q101	▲			
SMVA1470-004LF	Hyperabrupt Junction Tuning Varactor	AEC-Q101	▲			
SMVA1705-004LF	Hyperabrupt Junction Tuning Varactor	AEC-Q101	▲			
Diversity Receive Modules						
SKY5A5000	Sky5® 5G NR N77-79 LNA Diversity Receive Module (DRx)			▲		
SKYA25000	SkyOne® Ultra 3.0 Low-band DRx Module			▲		
SKYA25001	SkyOne® Ultra 3.0 Mid / High-band DRx Module			▲		
SKYA25002	SkyOne® Ultra 3.0 MIMO 4x4 Module			▲		
SKYA25003	Low / Low-mid / Mid / High-band and 4x4 MIMO Diversity Receive Module			▲		
Front-end Modules						
SKYA21043	802.11p DSRC/ C-V2X High Power PA/LNA/Switch Module	AEC-Q104 Grade 2				▲
SKYA24000	Antenna Switch Front-end Module with Integrated Duplexers			▲		
Low Noise Amplifier						
SKYA21051	High Performance 200 to 3800 MHz Single Match Broadband Low Noise Amplifier	AEC-Q100	▲			
Power Amplifier Modules						
SKYA21050	760 MHz Power Amplifier for Japan Dedicated Short Range Communications	AEC-Q100				▲
SKYA21055	Multimode Multi-band Power Amplifier Module for Quad-band GSM, LTE, LTE-A			▲		
SKYA21056	High-band Power Amplifier Module for 4G LTE, 4G LTE-A, AXGP Cellular			▲		



# Automotive Solutions by Application

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		Automotive Qualification	General Purpose	Cellular	Wi-Fi	Vehicle-to-Everything
Part Number	Description					
Power Amplifier Modules						
SKYA21058	Power Amplifier Module for LTE Bands 12, 17, 28			▲		
SKYA21066	Low-band SkyBlue™ High PAE Cellular MMPA Front-end Module			▲		
SKYA21067	Mid / High-band SkyBlue™ High PAE Cellular MMPA Front-end Module			▲		
SKYA22000	Power Amplifier Module for Quad-band GSM / GPRS / EDGE			▲		
SKYA22004	Low / Mid / High-band Cellular Multimode Power Amplifier (MMPA) Front-end Module			▲		
Power Amplifier Modules with Integrated Filters						
SKY5A3000	Sky5® 5G NR n77/78/79 PA Module with Integrated Filter (L-PAMiF) with SkyBlue™ APT			▲		
SKY5A3001	Sky5® 5G NR n77/78/79 PA Module with Integrated Filter (L-PAMiF) with SkyBlue™ ET			▲		
SKYA21049S	SkyOne® PA Module with Integrated Duplexers for 4G LTE			▲		
SKYA21057	SkyOne® Multimode Multiband Front-end Module for 4G LTE and 4G LTE-A (Downlink Carrier Aggregation Applications)			▲		
SKYA22005	4G High Power Multimode Multiband PA with 2 TRx Ports and 14 Outputs					
SKYA22006	TX-FEM with 2G PA and 14 TRx Ports					
SKYA23011 / 013 / 014	SkyOne® Ultra 3.0 Low / Mid / High-band L-PAMiD family with integrated duplexers for 4G LTE Applications with SkyBlue™ APT			▲		
Regulator						
SKYA21068	Power Management IC for the SkyBlue™ System			▲		
SKY5A2103	Sky5® 5G PMIC with SkyBlue™			▲		
Switches						
SKY5A1007	Sky5® 0.4 to 5.9 GHz DPDT Low Insertion Loss / High-Isolation Switch			▲		
SKYA21001	20 MHz to 3.0 GHz SPDT Switch	AEC-Q100		▲		
SKYA21003	0.1 to 6.0 GHz SPDT Switch	AEC-Q100		▲		
SKYA21012	20 MHz to 6.0 GHz GaAs SPDT Switch				▲	
SKYA21013 / 024	0.01 to 6.0 GHz Single Control SPDT Switch				▲	
SKYA21037	0.7 to 3.8 GHz DPDT Cellular Switch	AEC-Q100		▲		
SKYA21038	0.9 to 6.0 GHz SPDT Switch for Wi-Fi / Bluetooth® / Bluetooth® Low Energy	AEC-Q100 Grade 2			▲	
SKYA21039	2.4 to 2.5 GHz SP3T Switch for Wi-Fi / Bluetooth® / Bluetooth® Low Energy	AEC-Q100 Grade 2			▲	
SKYA21062	0.1 to 6.0 GHz SP3T High Power Switch			▲		
SKYA21064	0.7 to 3.8 GHz SPDT High Power Switch			▲		
SKYA21070	0.1 to 6.0 GHz Switch for Applications Supporting AM / FM Radio		▲			
Switch + Low Noise Amplifiers						
SKYA21040	2.4 GHz Wi-Fi Switch / Low Noise Amplifier Front-end Module	AEC-Q100 Grade 2			▲	
SKYA21041	5 GHz Wi-Fi Switch / Low Noise Amplifier Front-end Module	AEC-Q100 Grade 2			▲	