



SKYWORKS®

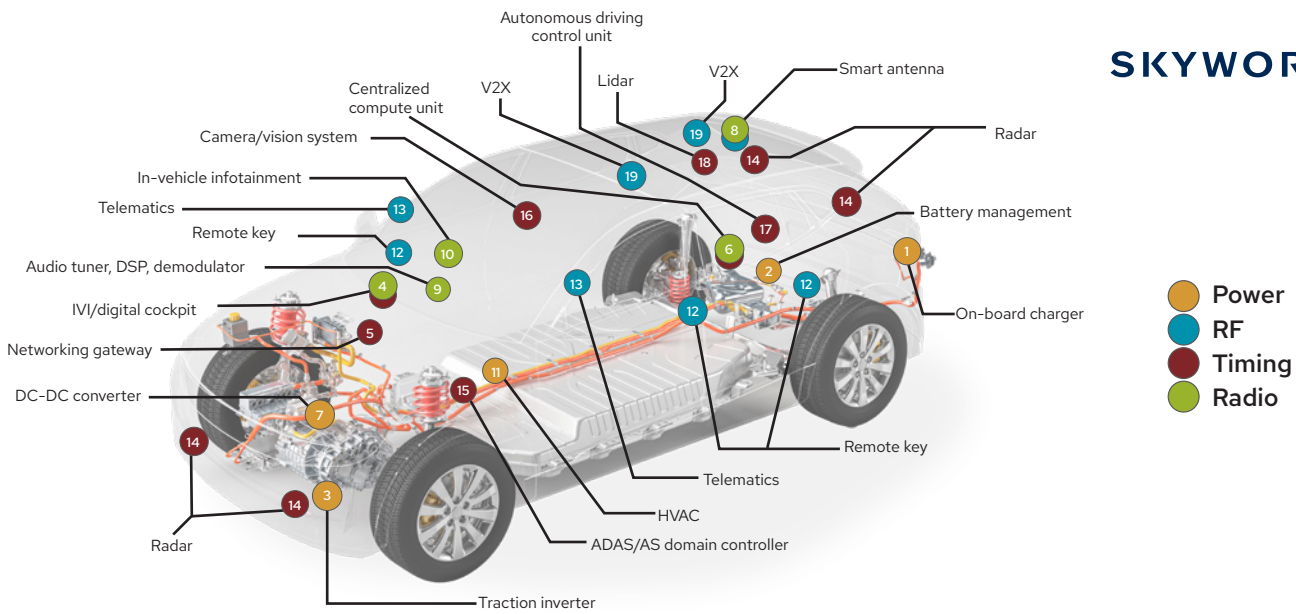


skyworksinc.com

Automotive Solutions

Enhance Automotive Safety, Efficiency, and Convenience

Multi-function, multi-chip modules and solutions from Skyworks reduce part count and simplify essential circuits in a wide variety of applications. From RF front-end modules for diversity receivers and navigation, and reference clocks for central computers, to isolated gate drivers, amplifiers and data transceivers for power management and traction controls, the solutions are available in various packages and qualifications.



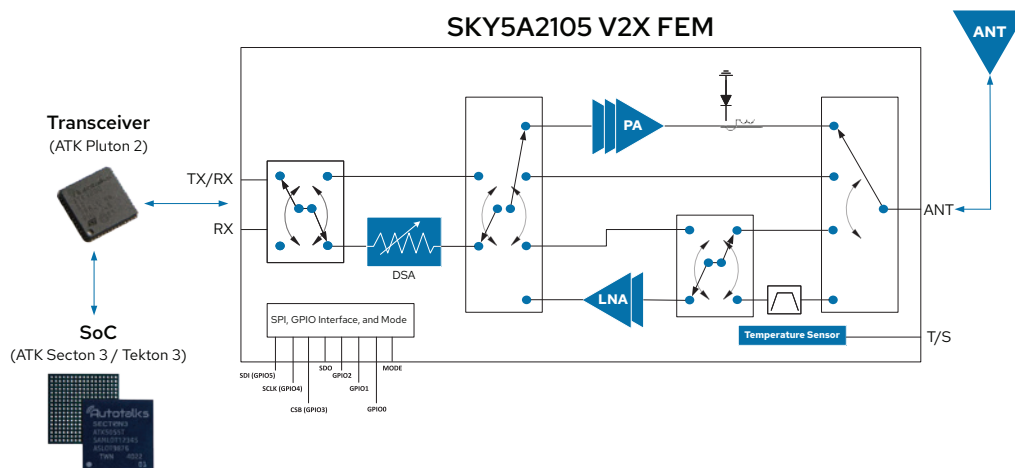
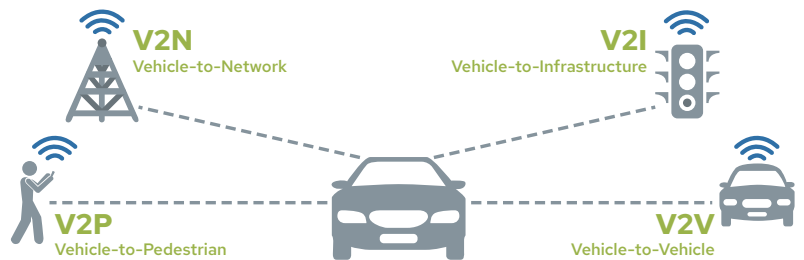
- Power
- RF
- Timing
- Radio

Ref	Function	Product Type	Typical Part Numbers
Powertrain			
1	On-board charger	Digital isolators, isolated amplifiers	Si892x/3x/4x
2	Battery management	Digital isolators, isolated amplifiers	Si892x/3x/4x
3	Traction inverter	Isolated gate drivers, digital isolators, isolated amplifiers	XM3 Si828x GDB (Wolfspeed), Si893x
Vehicle Management			
4	IVI/digital cockpit	Automotive PCI Express (PCIe) clock buffers, clock generators, automotive tuners	Si53258/4, Si5332A-D-AM1/2/3, Si46xx, Si479xx
5	Networking gateway	Automotive PCI Express (PCIe) clock buffers, clock generators, automotive tuners	Si53258/4, Si5332A-D-AM1/2/3
6	Centralized compute unit	Automotive PCI Express (PCIe) clock buffers, clock generators, automotive tuners	Si53258/4, Si5332A-D-AM1/2/3, Si46xx, Si479xx
7	DC-DC converter	Digital isolators, isolated amplifiers	Si892x/3x/4x
Infotainment			
8	Smart antenna	Automotive tuners, RF front-end modules, low noise amplifiers, GPS/GNSS	Si46xx, Si479xx, SKY5A2105, SKY5A108, SKY5A5109, SKY5A5110
9	Audio tuner, DSP, demodulator	USB drivers, automotive tuners	Si46xx and Si479xx
10	In-vehicle infotainment	USB drivers, automotive tuners	Si46xx, Si479xx
Driver Convenience			
11	HVAC	Digital isolators, isolated amplifiers	Si892x/3x/4x
12	Remote key	Switches	SKY5A1007, SKY5A21001, SKY5A21003
13	Telematics	Front-end modules including power amplifiers, integrated filters, and LNAs	SKY5A2203/04/05/06, SKY5A3048/37, SKY5A5002/05/09/12/11
Autonomous Driving			
14	Radar	Automotive PCI Express (PCIe) clock buffers, clock generators	Si53258/4, Si5332A-D-AM1/2/3
15	ADAS/AS domain controller		
16	Camera/vision system		
17	Autonomous driving control unit		
18	Lidar		
19	V2X	RF front-end modules	SKY5A2105

Featured Parts

SKY5A2105 RF Front-end Module for V2X Applications

- Enables 5G/4G/Wi-Fi® V2X-equipped vehicles to communicate with other vehicles and infrastructure
- Compact multi-chip-module (MCM) design contains a complete RF system in one package
- Compliant with 3GPP and IEEE V2X standards, meets emissions requirements from US (FCC) and EU (CE)
- High transmit power ensures maximum legal range of communication
 - » C-V2X (LTE): +29 dBm typical
 - » C-V2X (5G NR): +26.5 dBm typical (2.5 dB MPR)
 - » 802.11p DSRC: +26 dBm typical
- AEC-Q104 Grade 2 qualified (-40 °C to +105 °C). Developed under full IATF-16949 compliant design flow.



Sky5® 5G Value Automotive Telematics RF Front-end Solutions

- Flexible, cost-effective total RF front-end solutions for mid-price automotive 5G NAD or TCU
- Balance of discrete TX and integrated RX offers ideal performance vs. price balance, flexibility, and simplification vs full discrete RF designs
- Sky5® 5G Value FEMs
 - » SKY5A2206 (LMHB Multi-band PA)
 - » SKY5A2205 (Tx-Rx Front-end Module)
 - » SKY5A2203 (LMHB LNA Module)
 - » SKY5A3048 (UHB DB L-PAMiF)
 - » SKY5A5010 (LMHB DRx Module)
 - » SKY5A5005 (MHB MIMO Module)
 - » SKY5A5009 (UHB DRx Module)
- Integrated MIPI RFFE interface
- Full automotive support:
 - » AEC-Q104 Grade 2 qualified (-40 °C to +105 °C)
 - » PPAP and IMDS material declaration



Tuners and Digital Radio Coprocessors

Skyworks partitioning of separate tuners and digital radio coprocessors combined with pin/package and API compatibility results in unmatched scalability and regional configurability. Our tuners and coprocessors are designed to interface seamlessly to achieve a complete digital radio receiver.

- Si46922 High-performance Dual Digital Radio Co-processor for DAB/DAB+/DMB
- Si47962 High-performance Dual AM/FM Radio Receiver and HD Radio™/DAB/DAB+/DMB/DRM Tuner
- Si47951 High-performance AM/FM Radio Receiver and HD Radio™ Tuner



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