



## Automotive Linecard

SMART LINKING BEGINS WITH SMART THINKING.  
OUR AUTOMOTIVE INNOVATION NETWORK IS THE SYNAPSE FOR YOUR SUCCESS.



# Avnet Silica

## Your key partner for the cars of the future

### AUTOMOTIVE

As one of the industry's leading distributors, Avnet Silica has extensive and profound experience in the automotive sector that stretches back many years. We work closely with our customers on world-class and high-profile projects that will define the future of automotive – no wonder we are one of the most highly regarded supply and support partners in this market. At Avnet Silica, we help you achieve your goals with the widest range of products combined with our proven technical and commercial advice. You also benefit from Avnet Silica's world class support, logistics and programming services.

TALK TO US ABOUT HOW WE CAN HELP YOU DRIVE YOUR PROJECT TO SUCCESS!

**We have a dedicated team of specialists who would be happy to support you with:**

- Competent advice on best product and system level solutions
- Logistics support
- Supply chain services
- Programming centre
- In-house seminars
- Functional Safety
- Quality



# Automotive Linecard

	Discrete					Logic	Sensor		Analog						Power						
	Power Diode	Power Bipolar Transistor	Power MOSFET	IGBT	Small Signal Discrete		Analog / Digital Sensor	Image / Optical Sensor	Amplifier	Audio Driver	Audio / Video	Converter	Interface	LED Driver	AC / DC / PFC	DC / DC	Linear + Voltage Regulator	Power Monitor + Supervisor	Switching Regulator	Power Module	Gate Driver
Allegro	•	•	•		•		•						•		•	•		•			•
Cirrus Logic							•		•	•	•										
Dialog						•												•			
Diodes	•	•	•		•		•		•			•	•			•	•				•
Elmos							•				•	•	•		•						•
Infineon	•	•	•	•	•		•			•			•	•	•	•	•	•	•	•	•
ISSI										•			•								
Lumileds																					
Macronix																					
Marvell																					
Maxim										•	•	•	•	•	•	•	•	•	•	•	•
Microchip	•	•	•	•	•		•		•			•	•	•	•	•	•	•	•	•	•
Micron																					
Monolithic Power Systems									•				•	•	•	•	•	•	•	•	•
Nexperia	•	•	•		•	•															
NXP	•	•	•		•	•	•		•	•	•	•	•		•	•			•		•
ON Semiconductor	•	•	•	•	•		•	•	•		•	•	•		•	•	•	•	•	•	•
Qorvo									•												
Quectel																					
Renesas Electronics			•	•																	•
ROHM Semiconductor	•	•	•		•		•	•	•	•	•	•	•		•	•			•	•	
Semtech										•		•	•		•	•			•		
STMicroelectronics	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
Torex													•	•	•	•					
Western Digital																					
Xilinx																					

These products and suppliers are a subset of the complete line cards from Avnet Silica which are available under [avnet-silica.com](http://avnet-silica.com). For enquiries please contact your local sales contact or [automotive@avnet.eu](mailto:automotive@avnet.eu).

References	MCU & MPU				PLC	Network			Memory					Clock & Timing	Others			
	DSP	MCU 8-bit	MCU 16- / 32-bit	MPU RISC / ARM		RF & Wideband	Wireless Communication	In-Vehicle Networking	SRAM	DRAM & Module	EPROM / EEPROM / FRAM	NVRAM	FLASH		Fibre Optics	Display / Driver	LED / VCSEL	
																		Allegro
	•																	Cirrus Logic
							•	•										Dialog
•															•			Diodes
								•										Elmos
•		•	•	•		•	•	•								•		Infineon
		•						•	•	•			•					ISSI
																	•	Lumileds
													•					Macronix
	•			•				•										Marvell
•						•		•										Maxim
		•	•					•	•	•			•	•				Microchip
									•				•					Micron
														•			•	Monolithic Power Systems
																		Nexperia
	•	•	•	•		•	•	•		•				•			•	NXP
•								•		•				•				ON Semiconductor
							•	•										Qorvo
							•	•										Quectel
			•	•											•			Renesas Electronics
								•		•				•			•	ROHM Semiconductor
							•	•										Semtech
•		•	•	•		•	•	•		•	•			•				STMicroelectronics
																		Torex
													•					Western Digital
	•		•	•	•													Xilinx

# Technology & Application Matrix

Our Technology and Application Matrix can guide you directly to the products and solutions you require

	Power Supply Systems				Automated Car ADAS			Car Efficiency				In-Vehicle Networking				Infotainment					Intelligent Lighting			
	ECU & Gateway	System Basis Chip	Power Supply Systems	Security	Camera	Sensor & Sensor Fusion	Cellular	48V power net	Electrical Safety	Battery Management	BLDC motor control	LIN	CAN	Ethernet	FlexRay	Memory	Car Audio	Touch & Gesture	Bluetooth	WiFi	USB	Wireless Charging	Interior Lighting LED	Exterior Lighting LED
Allegro			•				•		•	•													•	•
Cirrus Logic																•					•			
Dialog	•		•																•					
Diodes	•					•		•	•	•											•		•	•
Elmos		•				•	•			•	•	•		•			•				•		•	•
Infineon	•	•	•	•		•			•	•	•	•		•			•						•	•
ISSI	•				•	•										•	•	•						
Lumileds																							•	•
Macronix	•														•									
Marvell														•										
Maxim	•		•		•		•	•	•							•	•				•		•	•
Microchip	•	•	•	•		•				•	•	•	•		•		•		•	•	•		•	
Micron	•				•										•									
MPS	•		•		•		•		•	•						•					•	•	•	•
Nexperia								•	•	•														
NXP	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	
ON Semiconductor	•	•	•		•	•	•	•	•	•	•	•	•	•	•			•					•	•
Qorvo						•												•	•					
Quectel						•																		
Renesas Electronics	•	•	•		•	•			•	•	•	•		•		•								
ROHM Semiconductor	•		•		•			•	•													•	•	•
Semtech	•		•					•														•	•	•
STMicroelectronics	•	•	•	•	•		•		•	•	•	•	•	•	•	•							•	•
Torex	•		•																					
Western Digital	•				•			•							•						•			
Xilinx	•				•							•		•										

# Challenges and Trends

Things have changed a lot in the automotive industry over the last few years, especially due to the progress of digital transformation. This has affected vehicle development in the following ways:

- The tremendous speed of IT integration into the car (autonomous car, connected car, security)
- The increasing speed of innovation that aligns car usage with consumer mobility behaviour (eMobility, on demand features and services, shared mobility)
- New business models and new players that significantly increase the competition landscape and diversify the revenue stream

These are just some of the reasons that the automotive industry is becoming more and more complex. As an actor in this space, you can master the challenges and increase your competitive edge with Avnet Silica by your side. You benefit from a broad and unique linecard offering the optimal mix of products from the world's leading automotive suppliers and from innovative providers of best-in-class solutions.

## FROM CONNECTIVITY TO SECURITY

- Car2Car security
- Car2Cloud security
- Function on demand

## FROM AUTOMATED TO AUTONOMOUS DRIVING

- Safety
- Connectivity
- Sensor fusion
- Reality index (robust, real-time status)
- Vision zero



## FROM INDIVIDUALITY TO FLEXIBILITY / FREEDOM

- eMobility
- Urbanisation
- Shared cars
- End-2-user-experience

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