

/AUTOMOTIVE LINECARD

AVNET[®] SILICA



**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 | | | | | | | • | | | | • | • | • | | • | | | | | | • |
| ISSI | | | | | | | | | | • | | | • | | | | | | | | |
| Lumileds | | | | | | | | | | | | | | | | | | | | | |
| Macronix | | | | | | | | | | | | | | | | | | | | | |
| Marvell | | | | | | | | | | | | | | | | | | | | | |
| Microchip | • | • | • | • | • | | • | | • | | | • | • | | • | • | • | • | • | | • |
| Micron | | | | | | | | | | | | | | | | | | | | | |
| Monolithic Power Systems | | | | | | | | | • | | | | | • | • | • | • | • | • | • | • |
| Nexperia | • | • | • | | • | • | | | | | | | | | | | | | | | |
| NXP | • | • | • | | • | • | • | | • | • | • | • | • | | • | • | | | • | | • |
| onsemi | • | • | • | • | • | | • | • | • | | • | • | • | | • | • | • | • | • | • | • |
| 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. For enquiries please contact your local sales contact or automotive@avnet.eu.

/ 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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