COMMERCIAL AVIONICS, SPACE AND DEFENCE

LINECARD AND CAPABILITY INSIGHTS

AVNET® SILICA

/ EXPERTISE YOU CAN RELY ON FOR YOUR AEROSPACE AND DEFENCE APPLICATIONS

Aerospace and Defence, including commercial aviation, are demanding industries each with their own unique technical and commercial challenges. We often take for granted the opportunities to fly on a new efficient aeroplane or connect to the internet in a remote location, but behind these technical achievements stands a dedicated group of customers and suppliers.

Avnet Silica has long-established partnerships with the world's leading suppliers in Aerospace and Defence, and we've been supporting our customers with electronic components and solutions for these demanding industries for decades. We provide technical and logistics support, solutions for legacy and EOL situations and competent advice, all covered by the right certifications. And because we're working with suppliers at the cutting-edge of innovation, we're best placed to support your future designs and developments for AI/ML, Air Taxis, high speed avionic Ethernet, cyber security, fibre optics, New Space Constellations, Digital Image Systems and Unmanned Aerial Vehicles, to name but a few.

This expertise and market-leading customer support is the reason our semiconductor products are designed into aerospace and defence applications, where the highest reliability is non-negotiable. Our Aerospace and Defence experts are some of the best in the industry. Get in touch at the addresses below to launch your next project.

avionic@avnet.eu / defence@avnet.eu / space@avnet.eu

/ DEFENCE

A PARTNER THAT UNDERSTANDS YOUR CHALLENGES

Equipment manufacturers face a unique set of challenges in the defence industry. Balancing ever-changing budgets with the need to design, develop, supply and support equipment over many years is complex. Component obsolescence and the decreasing availability of leaded (pb) components also has to be factored in, as these can affect equipment availability, cost and product lifecycle.

Alongside these commercial and technical considerations, engineers are faced with the task of developing products with long lifecycles, for one of the harshest working environments. Extremes of temperature, radiation or mechanical stress make the choice of components and suppliers critical to project success.

At Avnet Silica we understand this decision making process, whether your project is ground based, sea based, avionic or space. We've supported customers on key defence projects for many years and continue to play an essential role in the supply and support chain to this market.

MARKET-LEADING SUPPORT FROM THE EXPERTS

Avnet Silica supports your defence projects with the highest levels of technical and commercial support, combined with world class logistics. We partner with most of the world's leading suppliers to this market, to bring you a complete system level solution for your projects, and access to the latest product innovations.

PRODUCT SOLUTIONS

Our product solutions include diodes, transistors, memory, analogue and power management solutions, state of the art RFSoCs, FPGAs, MPUs + MCUs, ASICs and Data Communication products. We also offer component screening options, depending on your project needs and budget. In addition to bringing you the newest products on the market, we're committed to helping you reduce the impact of end of life or obsolescence issues.

GUIDANCE ACROSS YOUR PROJECT LIFECYCLE:

- Design-In
- Logistics and Supply Chain
- Product export classification
- Regular product updates
- Extension of life solutions for obsolete components
- Competent advice on best product and system level solutions

/ COMMERCIAL AVIONICS / AIR TAXI / UAVS / DRONES

A PARTNER THAT UNDERSTANDS YOUR CHALLENGES

The avionic market is a dynamic business where commercial pressures to produce fuel-efficient, low maintenance, cost-effective aircraft compete against the challenges of developing products for one of the harshest working environments. Notwithstanding the effects of the recent pandemic, extremes of temperature, radiation or mechanical stress and long project lifetimes make the choice of components and suppliers critical to project success. The growing development of Air Taxi, UAVs and drones, as well as all electric aircraft, continue to make this a dynamic market.

MARKET-LEADING SUPPORT FROM THE EXPERTS

Avnet Silica has a wide range of products and expertise to support your needs whether for Commercial Avionics, an Air Taxi, UAV or Drone. We work very closely with our suppliers, to bring you the latest highly-reliable product solutions, and together, we can help support your requirements for DAL A and B DO254 certification. We offer a wide range of product solutions ranging from diodes, transistors, memory, analogue and power management solutions right up to state of the art FPGAs, ASICs and Data Communication products.

PRODUCT SOLUTIONS

Avnet Silica can support your requirements for digital electronic components in avionic cockpit systems or power electronics for actuation systems.
We offer our customers:

Cockpit Avionics
- Flight Control Computers
- Data Management Systems
- Information Router Systems
- Crew Interface Systems

Actuation Systems
- Primary and Secondary Actuation Systems
- High Lift Control and Monitoring
- Landing Systems
- Wheels & Braking Systems

Cabin Management Systems
- Cabin Lighting & Control
- Air Conditioning & Management Systems
- Flight Entertainment Systems

Engine Systems & Controls
- FADEC - Full Authority Digital Engine Control
- Engine Start & Power Conversion & Distribution Systems
- Engine & APU Controls
- Power System Monitors
- Fuel Management Systems
- Electronic

RF & Microwave Systems
- Navigation & Guidance Systems
- Satellite communication
- X-Band Weather Radar
- Communication/Navigation Radios

	Analog Signal Chain	Datacom	MCUs / MPUs	Memory	Power	Programmable Logic	RF	Security	Sensors	Timing MEMs + Quartz	Wireless
Alliance				•							
AMD	•		•	•		•	•	•			
Coilcraft		•							•		
Delkin Devices				•							
Diodes	•	•			•				•		
Coherent		•									
Greenliant				•							
GSI Technology				•							
ISSI				•	•				•		
Macronix				•							
Marvell		•	•					•			•
Mercury Systems	•			•			•				
Microchip	•	•	•	•	•	•	•	•	•	•	•
Micron				•							
Nexperia	•	•			•						
NXP	•	•	•		•		•	•	•		•
onsemi	•	•	•	•	•				•		•
Otava							•				
Qorvo							•				
Renesas Electronics	•	•	•	•	•		•	•	•	•	•
SiTime										•	
Smart Modular Technologies				•							
STMicroelectronics	•	•	•	•	•			•	•		•
Teledyne e2v	•		•	•	•		•				

* Discontinued Products

Guidance across your project lifecycle
- Design-In
- Logistics and Supply Chain
- DO254 Certification
- Expert-led webinars
- A wide variety of FPGA, SoC and ASIC and security solutions
- Extension of life solutions for obsolete components
- Competent advice on best product and system level solutions

/SPACE / NEW SPACE / SPACE 2.0

A PARTNER THAT UNDERSTANDS YOUR CHALLENGES

Over the past few years, a revolution has occurred in the space market. New companies are entering this market with plans for low earth orbit constellations offering worldwide internet, HD earth observation or private networks.

Designers of these exciting satellites want the benefits of lower cost commercial off-the-shelf (COTS) components, combined with a degree of radiation tolerance.

The space market is a dynamic business where extremes of temperature, radiation or mechanical stress make the choice of components and suppliers critical to mission success. Growing demand for In Orbit reprogramming, ever more powerful on-board processing, coupled with new developments in AI/ML make this a dynamic and exciting market to support.

At Avnet Silica, we're working closely with our semiconductor partners to proactively support this dynamic new market area. These suppliers are using their vast knowledge and long experience of supporting traditional radiation-hardened components to come up with innovative, lower cost, reliable radiation tolerant components that can now cover a wide range of technological functions.

MARKET-LEADING SUPPORT FROM THE EXPERTS

Avnet Silica supports many of Europe's key space projects and customers. Whether it is an earth observation satellite, a telecomm or Global Positioning Satellite or even a trip to Mercury, Mars or beyond – we have the products and expertise to support your needs. Space grade parts supplied by Avnet Silica can be found in all applications where very high reliability and radiation requirements are a must.

PRODUCT SOLUTIONS

We offer high-reliability product solutions for all of your space projects, including a wide range of radiation hardened and radiation tolerant solutions, from diodes, transistors, memory, power management and analogue solutions right up to state of the art processors, FPGAs, SoCs and ASICs.

Guidance across your project lifecycle

- Product's export classification information included on quote, delivery note and invoice
- Supplier C of Cs stored per delivery
- End User Statement (EUS) Support – if you are new to this
- Design-In support and webinars led by our experts
- Guidance on industry- critical terms: Single Lot Date Code (SLDC), Total Ionising Dose (TID), Single Event Effects (SEE), Particle Impact Noise Detection (PIND) and many more
- Competent advice on best product and system level solutions

	Analog Signal Chain	ASIC	Datacom	MCUs / MPUs	Memory	Power	Programmable Logic	RF	Sensors	Timing Products
AMD/Xilinx	•			•	•		•	•		
II-VI | Coherent								•	•	
GSI Technology					•					
Mercury Systems					•	•		•		
Microchip	•	•	•	•	•	•	•	•	•	•
Micron					•					
onsemi		•							•	
Qorvo								•		
Renesas Intersil	•		•	•	•	•		•	•	
SiTime										•
STMicroelectronics	•					•		•		
Teledyne E2V	•		•	•	•	•		•		

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