

LINECARD
ISRAEL

AVNET[®] SILICA

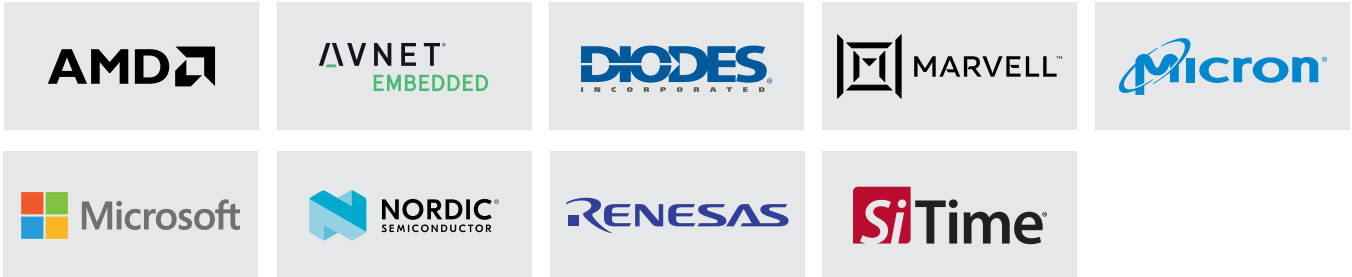


SUPPLIER & TECHNOLOGY PORTFOLIO



/ CORE SUPPLIERS

PARTNERING FOR SCALE WITH DEDICATED RESOURCES AND ENHANCED TECHNICAL SUPPORT



/ PORTFOLIO



Avnet ASIC Solutions is your one-stop-shop for ASIC Design Services and Turnkey manufacturing services, operating for over 30 years with 350 successful completed projects. We can step in with a very skilled design team and offer you flexible business models.

We offer a complete range of ASIC services, from specification to mass production, with robust design practices and smooth ramp path to mass production.

Avnet ASIC Solutions has strong established relationships with the main foundries like Samsung, TSMC, Global Foundry, ST, Xfab and SocioNext. We choose the technology that is most suited for a particular application and your specific needs and we take charge to enable you to work with a single point of contact only: Avnet ASIC Solutions. Our proven technology nodes expertise get down to advanced EUV 7nm for Digital, Analog or Mix Signal designs.

The ASIC focus application areas are: Automotive, Industrial, Artificial Intelligent, Consumer, Internet of Things, Bio- Medical, Communication, Crypto Currency and many more.

END OF LIFE SOLUTIONS

The current and upcoming market changes bring more and more mature technology to an End of Life Status. The needed re-designs can often not be implemented in time with all re-design and re-qualification needs.

Avnet ASIC Solutions offers you to develop pin compatible solutions which avoid system re-design and re-qualification. Our replacement capabilities are Analog, Digital, Mix Signal as well as old ASIC (standard cell and gate array) and FPGAs with the capability to offer 5V and 5V/3.3V core voltage.

Visit avnet-asic.com for more information or contact us at asic-solutions@avnet.eu.

OUR SERVICE FOR YOU

- Logic Design
- Verification
- Emulation
- Synthesis
- Backend (Chip Layout)
- Design for Test
- Physical Verifications
- Package Development
- Production Test Program
- Production Test H/W Development
- Mass Production Logistics Management

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/ ANALOG

	Signal Chain										Power Management										Interface																
	Switches and Muxes	Op Amps & Comparators	Current Sense Amplifiers	Digital Pots	Data Converters (ADC - DAC)	Analog Signal Conditioners	Energy measurement AFE	Audio/video Processing	Programmable Mixed Signal	Voltage References	AC/DC converters/controllers	DC/DC converters/controllers	DC/DC Power Modules	Linear regulators	Gate Drivers	Motor and solenoid drivers	Power Over Ethernet	Battery management ICs	Power/Load Switches	LED and lighting drivers	Supervisors/Reset ICs/voltage detectors	Hot-swap Power Management	Wireless Chargers	USB power	PMICs	RS-485/RS-232	CAN/LIN	USB data	SmartCard	IO-Link	PowerLine modems	IO Expanders	Level Translators	Signal equalizers/conditioners/protection	Digital Isolators	Other interfaces	
AMD					•	•																															
Cirrus Logic				•	•		•	•																													
Diodes Incorporated	•	•	•					•		•	•	•		•	•	•		•	•	•	•					•								•	•		•
Qorvo	•	•					•				•					•		•	•					•	•											•	
Renesas Electronics	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ROHM Semiconductor	•	•			•		•			•	•		•	•	•		•	•	•	•	•		•	•	•		•				•					•	
Semtech		•	•				•				•		•	•				•	•	•																•	
Teledyne - e2v					•																																
Torex											•	•	•					•	•	•	•														•		



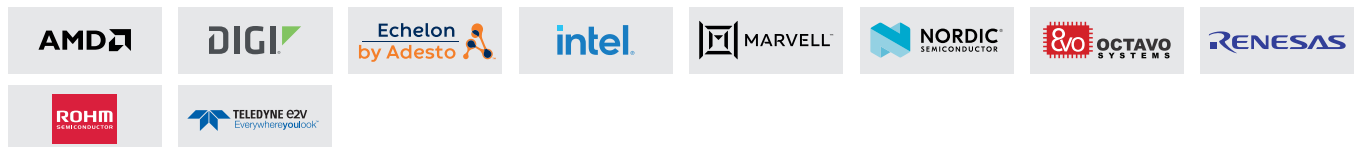
/ MCUS | MPUS

MCUs | MPUS

	MCU	MCU Wireless	MPU	x86
AMD			•	•
Digi	•	•	•	
Echelon	•	•		
Intel			•	•
Marvell			•	
Nordic	•	•		
Octavo Systems			•	
Renesas Electronics	•	•	•	
ROHM Semiconductor	•			
Teledyne e2v	•	•	•	

OTHER

	8 Bits Core	16 Bits Core	32 Bits Core	RISC-V
AMD	MicroBlaze, ARC, FPGA Soft Core			
Echelon	proprietary			
Renesas Electronics		RL78	"RX100/200/600/700 V850, RH850"	
ROHM Semiconductor	8051			
Teledyne e2v	ColdFire, ColdFire+, Power Architecture			



ARM®

	Arm9	ARM Cortex A5	ARM Cortex A7	ARM Cortex A8	ARM Cortex A9	ARM Cortex A15	ARM Cortex A35	ARM Cortex A53	ARM Cortex A57	ARM Cortex A72	ARMv7-A Compatible	ARM Cortex R4	ARM Cortex R5	Arm Cortex M0	Arm Cortex M0+	Arm Cortex-M23	ARM Cortex M3	Arm Cortex-M33	ARM Cortex M4	Arm Cortex M7
AMD					•			•					•				•			
Digi			•	•	•		•													
Marvell					•			•		•	•									
Nordic														•				•	•	
Octavo Systems		•	•					•					•							
Renesas Electronics		•			•	•		•	•			•			•	•	•	•	•	•
Teledyne e2v								•		•										



/ AUTOMOTIVE

	Timing Solutions	FPGA	MCU	Memories	PHY - ETH BaseT1	Connectivity	POWER	Switch/Bridge - ETH BaseT1	MCU
AMD			•				•		
Marvell					•			•	
Micron				•					
Renesas	•		•				•		•
SiTime	•								



/ SENSORS

	Environment										Motion						HMI & Others					
	Temperature	Light/Proximity	Pressure	Humidity	Gas/Smoke	Ultrasonic	Mass Flow	ToF Ranging	Radar	Audio (Mic.)	Axis Sensors			Speed/Position			Current	Touch Sense I/F	Image	PIR Controllers	3D Sensing	Biosensing
											Accelerometer	Gyroscope	Compass	Hall	Magnetic	Optical						
Cirrus Logic									•													
Dialog Semiconductor																	•					
Diodes	•													•	•					•*		
Renesas Electronics	•	•		•	•		•	•									•	•				
ROHM Semiconductor	•	•	•								•	•		•			•			•*		
Semtech																	•					
Torex	•													•								

*: signal conditioning only



/ POWER

	High Power WBG (SiC, GaN)	Bipolar Transistors (>1W)	MOSFETs	IGBTs	MOSFET Modules	IGBT Modules	IPM Modules	Diodes	ESD Protection & TVS Devices	Thyristors	Thyristor/ Diode Modules	AC/DC Offline	Power Factor Controllers	Linear & LDO Regulators	DC/DC Controllers	DC/DC Converters	PMIC	DC/DC Modules	Voltage References	Gate Drivers	LED Drivers & Controllers	Special Power Functions	Load Switches	Power Over Ethernet/ USB	Digital Power	Battery Management	Motion Control	RF Power	Wireless Charging	Power Magnetics	EMI/RFI/LC Filters		
Diodes		•	•	•				•	•			•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Ixys			•	•	•		•	•		•	•														•	•	•						
Octavo Systems																•	•																
Qorvo																	•									•	•	•					
Renesas Electronics		•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
ROHM Semiconductor	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
Semtech								•	•						•	•	•			•	•	•	•	•	•	•		•	•	•	•	•	
Torex			•					•	•					•	•	•	•	•		•	•	•	•	•		•							

x: associated components



/ WIRELESS

	Short Range											Cellular				GNSS	Wireless SOM	Antenna		Wireless Devices			
	NFC/RFID	Sub 1GHZ	Zigbee	Thread	Proprietary 2.4 GHz	Bluetooth	Sigfox	Lora	WiFi	UWB	DECT	V2X	2G / 3G	LTE MTC	LTE & LTE Adv.			5G	internal	external	Modem	Gateway	Router
2J Antenna																		X	X				
Antenova																		X	X				
Dialog						CM			CM		CM												
Digi International		M	M		M								M					X				X	X
Insight SIP	M	M	M	M	M	M		M		M								M					
MiroMico		M						M														X	
Nordic	C		C	C		C			C				M										
Panasonic	M		M	M	M	M		M															
Qorvo									FEM	CM			FEM	FEM	FEM	FEM	FEM						
Raytac			M	M		M																	
Renesas Electronics		C			C	CM		M					M										
Semtech		C			C			CM															

C = Chip; M = Modules
 FEM = Front End Module
 X = associated components



/ 5G

	Beamforming	Connectivity	DU Acceleration	Filters	NRPLUS	Power	RF	Storage	Timing
II-VI Coherent		•							
AMD	•		•				•		
Digi		•							
Fujikura							•		
Marvell		•	•					•	
Micron								•	
Nordic					•				
Otava	•			•			•		
Qorvo		•					•		
Renesas Electronics	•					•	•		•
Torex						•			



/ DATACOM

	10/100 Ethernet	1G Ethernet	2.5G Ethernet	10G Ethernet	25G Ethernet	40/50G	100G Ethernet	Optics	Timing	Signal Integrity	SAS SATA	Industrial Ethernet	PCIe	Others
II-VI Coherent								•						
Diodes									•	•			•	
Halo	•	•	•	•										•
Marvell	•	•	•	•	•	•	•	•		•	•	•	•	
Renesas Electronics	•	•							•			•	•	



PROGRAMMABLE & SYSTEM-ON-CHIP (SOC) & IP

		Technology (Flash/ SRAM)	Low Power Capabilities	Low-density FPGA (from 0 to 150k LC)	Mid-Density FPGA (from 0 to 500k LC)	Hi-Density FPGA (from 0 to 2M LC)	Ultra-high density FPGA (from 0 to 5.5M LC)	Defense-Grade FPGA	Space-Grade FPGA	Automotive-Grade FPGA	DSP	Multi Gb/s Serial I/O	10M/100M/1G Ethernet	100G Ethernet	Interlaken	PCIe	ARM Cortex A9 processor (up to)	ARM Cortex A53 processor (up to)	ARM Cortex R5 controller (up to)	ARM Cortex M3 controller (up to)	RISC-V	GPU	H264/H265 Video Codec	
AMD	Virtex-5 QV	65		•					•		•	•	soft											
	Spartan 6	45	•	•				•		•	•	•	soft			Gen1x1								
	Spartan 7	28	•	•						•	•		soft											
	Artix 7	28	•	•	•			•		•	•	•	soft			Gen2x4								
	Kintex 7	28		•	•			•		•	•	•	soft			Gen2x8								
	Virtex 7	28			•	•		•			•	•	soft			Gen3x8								
	Kintex Ultrascale	20			•	•		•			•	•	soft	•	150G	Gen3x8								
	Virtex Ultrascale	20			•	•	•				•	•	soft	•	150G	Gen3x8								
	Kintex Ultrascale +	16			•	•		•			•	•	soft	•	150G	Gen3x16/ Gen4x8								
	Virtex Ultrascale +	16			•	•	•				•	•	soft	•	150G	Gen3x16/ Gen4x8								
AMD	Zynq 7000/S	28	•	•	•		•		•	•	•	•			Gen2x4/ Gen4x8	2x			soft	soft				
	Zynq Ultrascale +	16	•	•	•	•	•		•	•	•	•	•	150G	Gen2x4/ Gen3x16/ Gen4x8		4x	2x	soft	soft	Mali 400MP2	•		
	RFSoc	16			•	•					•	•	•	•	150G	Gen2x4/ Gen3x16/ Gen4x8		4x	2x	soft	soft			
BittWare	BOARDS	SRAM				•	•				•	•	•	•	•		•	•						
Design Gateway	IP	SRAM														•								
Enclustra	BOARDS	SRAM	•		•				•	•	•	•	•	•	•	•	•	•	•					
IOxOS	BOARDS	SRAM				•	•				•	•	•	•	•	•		•	•					
Mipsology	IP	SRAM									•											•		
Octavo Systems		SRAM		•							•						•	•	•					
ONIX	BOARDS	SRAM				•					•	•	•	•	•	•								
PLDA	IP	SRAM									•					•								
Reflex CES	BOARDS	SRAM				•	•				•	•	•	•	•	•	•	•	•					
SECO	SOM	SRAM		•				•			•	•	•	•	•	•		•	•				•	
SOC-E	IP	SRAM										•												



/ LIGHTING

LEDs

	Low Power	Mid Power	High Power	COBs	Modules	Light Engines	Display/signage
Lumileds	•	•	•	•	•		•
Seoul Semiconductor	•	•	•	•	•	•	



/ TIMING

	Jitter Cleaners	Network Synchronizers	Clock Generators	Clk Buffers	oscillators	OCXOs	TCXOs	µPower Oscillators	resonators	PCI Express® Clocks
Diodes		•	•	•	•					•
Renesas Electronics	•	•	•	•	•					•
SiTime	•	•	•	•	•	•	•	•	•	•



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