

/ LINECARD

AVNET[®] SILICA



SUPPLIER & TECHNOLOGY PORTFOLIO



/ CORE SUPPLIERS

PARTNERING FOR SCALE WITH DEDICATED RESOURCES AND ENHANCED TECHNICAL SUPPORT



COMPLEMENTARY FRANCHISES



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

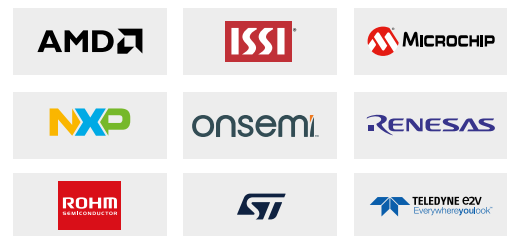
/ MCUS | MPUS

MCUs | MPUS

	MCU	MCU Wireless	MPU	x86
AMD / Xilinx			•	•
Digi	•	•	•	
ISSI	•			
Marvell	•		•	
Microchip	•	•	•	
Nordic	•	•		
NXP	•	•	•	
Octavo Systems			•	
onsemi	•	•		
Renesas Electronics	•	•	•	
ROHM Semiconductor	•			
STMicroelectronics	•	•	•	
Teledyne e2v	•	•	•	

OTHER

	8 Bits Core	16 Bits Core	32 Bits Core	RISC-V
AMD / Xilinx	MicroBlaze, ARC, FPGA Soft Core			
ISSI	8051			
Microchip	AVR, PIC		AVR, MIPS	•
NXP	HC08, HCS08, LPC9x, 8051		ColdFire, ColdFire+, Power Architecture	•
onsemi	LC87, 8051			
Renesas Electronics	proprietary	RL78	"RX100/200/600/700 V850, RH850"	
ROHM Semiconductor	8051			
STMicroelectronics	STM8			
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 / Xilinx					•			•					•				•			
Digi																				
Marvell					•			•	•	•										
Microchip	•	•												•	•				•	•
Nordic														•				•	•	
NXP	•	•	•	•	•		•	•	•	•				•	•		•	•	•	•
Octavo Systems			•	•				•					•							
Renesas Electronics			•		•	•		•	•			•			•	•	•	•	•	•
STMicroelectronics			•											•	•		•	•	•	•
Teledyne e2v							•		•											



	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 / Xilinx					•	•																																	
Cirrus Logic				•	•		•	•																															
Diodes Incorporated	•	•	•						•	•	•		•	•	•		•	•	•	•	•					•								•	•		•		
Elmos						•						•		•		•					•							•										•	
Microchip	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
Monolithic Power Systems (MPS)	•	•	•					•		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•													•	
Nexperia	•												•								•												•	•	•				
NXP	•					•		•		•	•		•	•	•		•	•	•	•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•	•	
onsemi	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•		•			•	•	•		•	•	•	•	•	•	•	•	•
Qorvo	•	•					•									•			•	•				•	•												•		
Renesas Electronics	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ROHM Semiconductor	•	•			•		•			•	•		•	•	•		•	•	•	•	•	•		•	•	•		•					•					•	
Semtech		•	•				•					•		•	•			•	•	•																•			
STMicroelectronics	•	•	•		•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Teledyne - e2v					•																																		
Torex												•	•	•							•	•	•	•												•			



/ SENSORS

	ENVIRONMENT									MOTION					HMI & Others					
	Temperature	Light / Proximity	Pressure	Humidity	Gas / Smoke	Ultrasonic	Flow / Mass	ToF ranging / LIDAR	Audio (microphone)	Accelerometer	Gyroscope	Compass	Hall / Magnetic	Inductive	Current	Touch Sense I/F	Image	PIR controllers	3D sensing	Biosensing
Coilcraft															•					
Diodes	•											•						•		
Elmos		•	•			•											•	•		
Microchip	•				•									•		•			•	
Monolithic Power Systems															•					
NXP	•		•						•		•					•				•
onsemi	•	•				•		•						•		•	•		•	•
Renesas Electronics	•	•		•	•		•	•						•		•				•
ROHM Semiconductor	•	•	•						•		•	•			•	•		•		•
Semtech																•				
Sharp		•		•													•			
STMicroelectronics	•	•	•					•	•	•	•	•				•	•			

*: 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
Coilcraft												X	X	X	X	X		X	X	X	X	X		X	X	X	X			•	•
Diodes	•	•	•					•	•			•	•	•	•	•			•	•	•	•	•	•	•	•	•	•			
Elmos														•		•					•	•					•				
Halo Electronics																									•						
ISSI																							•								
Microchip	•		•	•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Monolithic Power Systems												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Navitas	•																														
Nexperia			•					•	•													•	•	•							
Nordic Semiconductor																	•														
NXP					•				•			•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•
Octavo Systems																•	•														
onsemi	•	•	•	•	•	•	•					•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•
Qorvo																	•									•	•	•			
Renesas Electronics		•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ROHM Semiconductor	•	•	•	•	•	•	•					•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•
Semtech								•	•					•	•	•				•	•	•	•	•	•	•	•	•	•	•	•
STMicroelectronics	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torex			•					•	•					•	•	•	•	•			•	•	•	•		•					
WeEn	•	•						•		•																					

x: associated components



MEMORY

	DRAM												NAND										NOR			MCP		SRAM							EEPROM		NVRAM														
													Raw NAND				Managed NAND Flash				Solid State Storage																														
	EDO & Fast Page Mode	SDRAM	DDR	DDR2	DDR3	DDR4	GDDR5	RDRAM Memory	LDRAM	DRAM Modules	3D NAND	TLC NAND	MLC NAND	SLC NAND	Serial NAND	Embedded USB	Embedded Multimedia Card	SD + uSD Cards	CF Cards	PCMCIA	USB Flash Drive	2.5"	mSATA	M.2	BGA	Parallel NOR Flash	Serial NOR Flash	Octal NOR Flash	NOR-Based MCP	NAND-Based MCP	Asynchronous SRAM	Synchronous SRAM	Synchronous DDR SRAM	Synchronous QDR SRAM	Synchronous NoBL SRAM	Low Power SRAM		Serial nvSRAM	Parallel EEPROMv	Serial EEPROM	MRAM										
Alliance	•	•	•	•																						•	•			•																					
Delkin Devices												•				•	•	•	•	•	•	•	•	•																											
Greenliant											•					•	•					•	•	•	•																										
GSI Technology							•																							•				•																	
ISSI	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•											•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Kingston				•	•											•														•																					
Macronix															•	•	•										•	•	•	•	•																				
Mercury Systems		•	•	•	•				•													•	•	•					•		•	•													•	•					
Microchip																											•	•							•										•	•					
Micron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•	•	•																					
Octavo Systems				•	•																																										•				
onsemi																											•																			•					
Renesas Electronics	•																																			•	•	•	•			•		•	•						
ROHM Semiconductor																																																			
SK Hynix				•	•	•				•	•	•	•	•		•							•	•	•																										
Smart Modular Technologies																•	•	•	•		•	•	•	•	•																										
STMicroelectronics																																																			
Teledyne e2v	•	•	•	•	•				•		•	•	•	•												•	•																								
Western Digital											•	•	•			•	•																																		



/ WIRELESS

	Short Range											Cellular					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		GNSS	Satellite	Wireless SOM	internal	external	Modem	Gateway	Router
2J Antenna																				X	X				
Antenova																				X	X				
Azurewave			M	M		M			M										X						
Digi International		M	M		M								M						X				X	X	
Insight SIP	M	M	M	M	M			M		M										M					
H&D Wireless						M			M															X	
Laird			M		M	M		M	M	M			M						X	X	X		X		
Microchip		CM	CM		CM	CM		CM	CM																
MiroMico		M						M																X	
Nordic	C		C	C		C			C				M												
NXP	C	C	C	C		C	C		C	C		C													
onsemi		C	C	C	C	C	CM		C																
Panasonic	M		M	M	M	M			M																
Qorvo									FEM	CM		FEM	FEM	FEM	FEM	FEM									
Quectel						M			M			M	M	M	M	M	M	M	X	X	X				
Raytac			M	M		M																			
Renesas Electronics	C	C		C	C	CM		CM	CM	C	CM		CM	CM	CM	CM	CM								
Semtech		C			C			CM																	
STMicroelectronics	C	CM	CM	CM	CM	CM	C	CM	C								CM								
Teltonika																						X	X	X	
U-blox			M	M		M			M			M	CM	M		CM									

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



	Beamforming	Connectivity	DU Acceleration	Filters	Power	RF	Storage	Timing
II-VI | Coherent		•						
AMD / Xilinx	•		•			•		
Digi		•						
Ericsson								•
Marvell		•	•				•	
Microchip				•	•	•		•
Micron							•	
NXP					•	•		
Otava	•			•				
Qualcomm-RF360				•				
Quectel		•						
Renesas Electronics	•				•	•		•
STMicroelectronics					•			
Torex					•			
Ween					•			



	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	•	•	•	•	•	•	•			•	•	•	•	
Microchip	•	•	•	•	•	•	•	•	•	•	•	•	•	
Nexperia									•	•				
NXP	•	•	•	•	•	•	•		•	•	•		•	
onsemi									•	•			•	
Renesas Electronics	•	•							•			•	•	
STMicroelectronics	•												•	



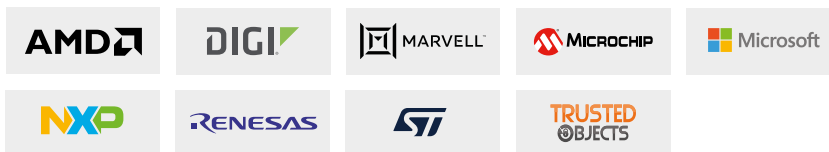
PROGRAMMABLE & SYSTEM-ON-CHIP (SoC)

	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	14bit RF-DAC w/up to 10GSPS DUC	14bit RF-ADC w/up to 5GSPS DDC	RF input Max Freq. (GHz)	SD-FEC	Decimation/Interpolation	
AMD / Xilinx	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				.	.								
	Zynq 7000/S	28	.	.	.		.		.	.	.	.			Gen2x4/ Gen2x8	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				up to 16	up to 16	up to 6GHz	up to 8	up to 40x
	ProASIC3	130		.				.	.	.											
IGLOO	130	.	.																									
Microchip	SmartFusion 2	65	.	.			.	.	.	.	(hard MAC) / 10G			Gen2x4 (EP)				1x										
	IGLOO2	65	.	.			.	.	.	.	(soft IP) / 10G			Gen2x4 (EP)						soft								
	PolarFire FPGA	28	.	.			.	.	.	.	(soft IP) / 10G	6.375G, 12.7G		Gen2x4 (RC/EP)						soft								
	SX-A	Antifuse 0.22µ	.				.	.																				
	Axcelerator	Antifuse 0.15µ	.				.	.																				
Octavo Systems	PolarFire SOC Family	28	.	.			.	.	.	.	(hard MAC) / 1G (soft IP) / 10G	6.375G, 12.7G		Gen2x4 (RC/EP)						5x								
		SRAM	.				.	.								.	.	.



/ SECURITY

	Use Cases					Secure Element (SE)																		FPGA / SoC Anti-Tamper							
						With Operating System (OS)									Without Operating System (OS)									Passive	Active						
	Brand Protection	Usage Control	Secure FW Update	Local Network (Intranet)	External Network (Internet)	Secure Boot MCU	Java Card OS	TPM OS	Proprietary OS	Single Authentication	Mutual Authentication	Symmetric Encryption	Asymmetric Encryption	ECC	RSA	Public Key Infrastructure (PKI)	Remote Key Provisioning	Single Authentication	Mutual Authentication	Symmetric Encryption	Asymmetric Encryption	ECC	RSA	Transport Layer Security (TLS)	Datagram Transport Layer Security (DTLS)	Physical Unclonable Function (PUF)	Certification Available	Key Provisioning by Avnet Silica	Low Power	AES256 (BBRAM & eFUSE), Secure Config/Boot (PL / PS), Hardened Readback Disable, Decrypt then Authenticate	SEU Checking, JTAG Disable/Monitor (BSCAN), Internal Key Clear, Internal Config Mem Clear, Unique Identifier Device (DNA), On-chip Temp/Volt Monitoring, PROG_B Intercept, Unique Identifier (User eFUSE)
AMD / Xilinx (FPGA / SoC)																															
Digi International																															
Marvell																															
Microchip																															
NXP																															
Renesas Electronics																															
STMicroelectronics																															
Trusted Objects																															



/ LIGHTING

LEDs

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

OPTICS

	Low Power	Mid Power	High Power	COBs	Modules
Gaggione		•	•	•	•
LEDiL	•	•	•	•	•

HOLDERS

Bender+Wirth					•
LEDiL					•

POWER

	Power	Topology	Indoor	Outdoor	Dimming Options	Programmable	Wireless
Delta Electronics	15-1500 W	CV, CC, CP	•	••	Analog, PWM, DALI2	Wired, NFC	•
Inventronics	9-1200 W	CV, CC, CP	•	••	Analog, PWM, DALI2	Wired, NFC	
Lifud	1-250 W	CV, CC, CP	••	•	Analog, PWM, DALI2	Switches, Wired	
Moons	12 - 320 W	CV, CC, CP	•	••	Analog, PWM, DALI2	Wired, NFC	•

THERMAL MANAGEMENT

	Mid Power	High Power	COBs	High Voltage
	0,3 - 0,9 W	1 - 4 W	4 - 10 W	
Mechatronix		•	•	•

LED DRIVERS

Diodes	Elmos	ISSI
NXP	Onsemi	STMicroelectronics

LEDs



Optics



COB Holders



Power



Thermal Management



LED Drivers



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