

AVNET[®] SILICA



Linecard

SUPPLIER & TECHNOLOGY PORTFOLIO

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

MCUs | MPUs

MCUs | MPUS

	MCU	Wireless MCU	MPU	x86
AMD			•	•
Digi International	•	•	•	
Echelon by Adesto	•	•		
Infineon	•	•		
Intel			•	•
Marvell		•	•	
Maxim Integrated	•			
Microchip	•			
Nordic Semiconductor	•	•		
NXP	•	•	•	
ON Semiconductor	•	•		
Renesas Electronics	•	•	•	
ROHM Semiconductor	•			
STMicroelectronics	•	•	•	
Teledyne e2v	•	•	•	
Texas Instruments	•	•	•	
Xilinx			•	

OTHER

	Other 8-bit Core	Other 16-bit Core	Other 32-bit Core
Infineon	8051	C166	Tricore
Maxim Integrated	8051	MAXQ	MAXQ
Microchip	AVR/PIC		AVR/MIPS
NXP	HC08, HCS08, LPC9x, 8051	S12, MC56F	ColdFire, ColdFire+, Power Architecture
ON Semiconductor	LC87, 8051		
Renesas Electronics		RL78	RX100/200/600/700 V850, RH850
ROHM Semiconductor	8051		
STMicroelectronics	STM8		
Texas Instruments	MSP430		C2000
Xilinx			MicroBlaze, ARC, FPGA Soft Core

ARM®

	ARM7	ARM9	ARM Cortex-A5	ARM Cortex-A7	ARM Cortex-A8	ARM Cortex-A9	ARM Cortex-A15	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-M4F	ARM Cortex-M7	
Digi International	•	•		•	•	•																
Infineon														•					•	•		
Marvell						•		•		•	•										•	
Maxim Integrated		•															•		•	•		
Microchip			•												•	•			•	•	•	
Nordic Semiconductor														•				•	•	•		
NXP	•	•	•	•	•	•		•	•	•				•	•		•		•	•	•	
Renesas Electronics				•		•	•	•				•			•		•		•	•	•	
ROHM Semiconductor	•																					
STMicroelectronics				•										•	•		•		•		•	
Texas Instruments		•			•	•	•					•	•				•				•	
Xilinx						•		•					•									



Analog

	Switch & Mux	Op Amps & Comparators	Current Sense Amps	Digital Pots	ADCs & DACs	Analog Signal Conditioners	Energy Measurement AFE	Audio/Video Processing	Programmable Mixed Signal	Voltage References
Cirrus Logic		•			•	•	•	•		
Dialog Semiconductor								•	•	
Diodes	•	•	•			•		•		•
Elmos						•				
Maxim Integrated	•	•	•	•	•	•	•	•	•	•
Microchip		•	•	•	•	•	•	•		•
Monolithic Power Systems	•	•	•					•		•
Nexperia	•									
NXP	•					•		•		
ON Semiconductor	•	•	•	•		•		•		•
Renesas incl. IDT	•	•	•	•	•	•	•	•		•
ROHM Semiconductor	•	•			•	•		•		
Semtech		•						•		•
STMicroelectronics	•	•	•		•	•	•	•		•
Teledyne e2v					•					
Texas Instruments	•	•	•	•	•	•		•		•



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							Inductive	Encoder		
Allegro														●	●								●	●		
Cirrus Logic									●																	
Coilcraft																	●									
Dialog Semiconductor																							●			
Diodes	●													●	●									●*		
Elmos	●	●	●		●*	●*																		●*		
Infineon			●					●	●				●	●											●	
Maxim Integrated	●	●		●		●*																	●*		●	
Microchip	●			●*	●*	●*																		●*		●
Monolithic Power Systems															●								●			
NXP	●		●									●	●	●		●								●		
ON Semiconductor	●	●						●															●	●	●*	
Renesas incl. IDT	●	●		●	●		●	●																		
ROHM Semiconductor	●	●	●										●		●									●*		
Semtech																								●		
Sharp		●																						●	●	
STMicroelectronics	●	●	●	●				●		●	●	●	●											●	●	
TD next																							●			
Texas Instruments	●	●	●*	●	●*	●*		●						●		●*	●*	●*					●	●	●*	
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	
Coilcraft												X	X	X	X	X		X	X	X	X	X		X	X	X	X			•	•	
Dialog Semiconductor												•			•		•						•	•		•	•	•		•		
Diodes		•	•	•				•	•			•	•	•	•	•				•	•	•	•	•		•	•	•				
Elmos														•		•					•	•					•					
Infineon	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•		•	•	•	•	•	•		
Maxim Integrated												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Microchip		•	•	•	•	•						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Monolithic Power Systems												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Nexperia			•					•	•													•	•	•								
NXP					•							•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•		
On Semiconductor	•	•	•	•	•	•	•	•				•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•		
Renesas		•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
ROHM Semiconductor	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•		
Semtech								•	•					•	•	•			•	•	•	•	•	•	•	•	•	•	•	•		
STMicroelectronics	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Texas Instruments			•									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Torex			•					•	•					•	•	•	•	•			•	•	•	•			•					
WeEn	•	•						•		•																						

x: associated components



Memory

	DRAM										NAND										NOR		MCP	SRAM							EEPROM		NVRAM																						
	EDO & Fast Page Mode	Raw NAND					Managed NAND Flash					Solid State Storage																																											
		SDRAM	DDR	DDR2	DDR3	DDR4	DDR5	RDRAM Memory	LPDRAM	DRAM Module	High Performance Memory	TLC NAND	MLC NAND	SLC NAND	Serial NAND	Embedded USB	Embedded Multimedia Card	SD + uSD Card	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 EEPROM	Serial EEPROM	MRAM															
Alliance	•	•	•	•					•																																		•												
Delkin Devices																•	•	•	•	•	•	•	•																																
GSI Technology									•																						•	•																							
Intel																							•	•	•	•																													
ISSI	•	•	•	•	•	•									•	•																																							
Macronix															•	•										•	•	•	•	•																									
Mercury Systems		•	•	•	•				•																																								•		•				
Microchip																											•	•																					•	•	•				
Micron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	•	•	•	•																									
ON Semiconductor																																																							
Renesas Electronics																																																							
ROHM Semiconductor																																																							
SK Hynix			•	•	•											•																																							
STMicroelectronics																																																							
Teledyne e2v	•	•	•	•	•				•	•	•	•	•													•	•																												
Western Digital																																																							



Wireless

	NFC/RFID	Sub 1GHZ	Zigbee	Thread	Proprietary 2.4 GHZ	Bluetooth	Wi-Fi	Cellular				DECT	Location	Sigfox	LoRa
								2G, 3G, 4G	LTE cat. M1	LTE cat. NB1	5G				
Dialog Semiconductor						C					M				
Digi International		M	M		M	M		M							
Laird			M		M	M	M							M	
Marvell			C	C		C	C					C			
Microchip		CM			CM	CM	CM							CM	
Nordic Semiconductor		C		C	C	C		M	M						
NXP	C	C	CM	C	CM	CM									
ON Semiconductor		CM	C		C	CM								CM	
Quectel								M	M	M	M*		M		
Renesas Electronics						CM									
Semtech		C			C									C	
STMicroelectronics	C	CM		C		CM						C	C		
TD next													M		
Texas Instruments	C	C	C	C	C	CM	CM							C	

C = Chip
M = Modules
M* = Modules available in fall 2019/ beg 2020



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
Diodes									•	•			•
Finisar								•					
Infineon								•	•			•	•
Intel	•	•	•	•	•	•	•	•	•	•	•	•	•
Marvell	•	•	•	•	•	•	•			•	•	•	•
Maxim Integrated										•			•
Microchip incl. Microsemi	•	•	•	•	•	•	•	•	•	•	•	•	•
Nexperia									•	•			
NXP	•	•	•	•	•	•	•		•	•	•	•	•
ON Semiconductor									•	•			•
Renesas incl. IDT	•	•							•			•	•
STMicroelectronics	•												•
Texas Instruments	•	•							•		•	•	•



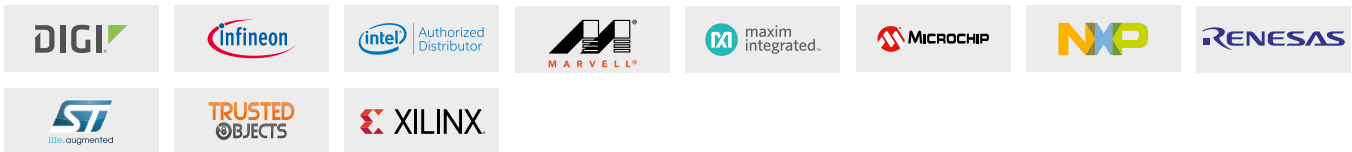
Programmable & System-on-Chip (SoC)

	Programmable Technology	Technology (Flash/SRAM)	Low Power Capabilities	Low Density FPGA (up to 150k LE)	Mid Density FPGA (up to 500k LE)	High Density FPGA (up to 2M LE)	Ultra-High Density FPGA (up to 5.5M LE)	Defense-Grade FPGA	Space-Grade FPGA	Automotive-Grade FPGA	DSP	Multi Gb/s Serial I/O	PCIe	ARM Cortex-A9 Processor (up to)	ARM Cortex-A53 Processor (up to)	ARM Cortex-R5 Processor (up to)	GPU	H.265 Video CODEC
Xilinx	Virtex-5 QV	65 nm SRAM		•					•		•	•						
	Spartan-6	45 nm SRAM	•	•				•		•	•	•	Gen1x1					
	Spartan-7	28 nm SRAM	•	•						•	•							
	Artix-7	28 nm SRAM	•	•	•			•		•	•	•	Gen2x4					
	Kintex-7	28 nm SRAM			•			•			•	•	Gen2x8					
	Virtex-7	28 nm SRAM				•		•			•	•	Gen3x8					
	Kintex UltraScale	20 nm SRAM				•					•	•	Gen3x8					
	Virtex UltraScale	20 nm SRAM					•				•	•	Gen3x8					
	Kintex UltraScale+	16 nm SRAM				•					•	•	Gen3x16/ Gen4x8					
	Virtex UltraScale+	16 nm SRAM					•				•	•	Gen3x16/ Gen4x8					
	Zynq-7000/S	28 nm SRAM	•	•					•		•	•	Gen2x4/ Gen2x8	2x				
	Zynq UltraScale+	16 nm SRAM	•		•	•					•	•	Gen2x4/ Gen3x16/ Gen4x8		4x	2x	Mali 400MP	•



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 Uncloenable 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)		
Digi International	•	•	•	•	•				•	•	•	•	•	•	•	•	•										•	•	•				
Infineon	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•											•	•				
Intel	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
Marvell	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•										•						
Maxim Integrated	•	•	•	•	•	•												•	•	•	•	•	•	•	•	•	•	•					
Microchip	•	•	•	•	•	•			•	•	•	•	•	•	•	•												•					
NXP	•	•	•	•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Renesas Electronics	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•											•					
STMicroelectronics	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•										•	•					
Trusted Objects	•	•	•	•	•				•	•	•	•	•	•	•	•	•										•	•	•				
Xilinx (FPGA / SoC)																											•	•					



Lighting

LEDs

	Low Power	Mid Power	High Power		COBs	High Voltage
	<0,3 W	0,3 - 0,9 W	1 - 4 W	4 - 10 W		
Lumileds	•	•	•	•	•	•
ROHM Semiconductor	•	•	•			
Seoul Semiconductor	•	•	•	•	•	•

OPTICS

Gaggione		•	•	•	•	•
LEDiL	•	•	•	•	•	•

HOLDERS *

Molex				•	•	
TE Connectivity				•	•	

POWER *

	Power	Topology	Indoor	Outdoor	Dimming Options	Programmable	Wireless
Aimtec	5 - 240 W	CC, CC/CV	•	•	AC, 0-10V, R, PWM		
Delta Electronics	7 - 320 W	CC, CV, CC/CV	•	•	AC, 0-10V, R, PWM, DALI		
Fulham	5 - 200 W	CC, CV, CC/CV, CP	•	•	AC, 0-10V, R, PWM, Pulse, DALI	Current, Clock	•
Mean Well	8 - 600 W	CC, CV, CC/CV, CP	•	•	AC, 0-10V, R, PWM, DALI, EnOcean	Clock	
Moons'	12 - 320 W	CC, CV, CP	•	•	AC, 0-10V, R, PWM, DALI, DMX/RDM	Current, Clock, Constant Light	•

THERMAL MANAGEMENT *

	Mid Power	High Power		COBs	High Voltage
	0,3 - 0,9 W	1 - 4 W	4 - 10 W		
3M	•	•	•	•	•
Aavid Thermalloy		•	•	•	•
Fischer Elektronik		•	•	•	•
Laird	•	•	•	•	•
Mechatronix		•	•	•	•

**CONNECTORS
(POWER AND SIGNAL) ***

Amphenol FCI	Hirose	Samtec
AVX	Molex	TE Connectivity

LED DRIVERS

Diodes	Maxim Integrated	ROHM Semiconductor
Elmos	NXP	STMicroelectronics
Infineon	ON Semiconductor	Texas Instruments

LEDs



Optics



COB Holders *



Power *



Thermal Management *



Connectors *



LED Drivers



*supported by Avnet Abacus

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