

/ LINECARD

AVNET[®] SILICA



SUPPLIER & TECHNOLOGY PORTFOLIO



PARTNERING FOR SCALE WITH DEDICATED RESOURCES AND ENHANCED TECHNICAL SUPPORT



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	•	•	•	
Echelon / Adesto	•	•		
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			
Echelon / Adesto	proprietary			
ISSI	8051			
Microchip	AVR, PIC		AVR, MIPS	•
NXP	HC08, HCS08, LPC9x, 8051		ColdFire, ColdFire+, Power Architecture	•
onsemi	LC87, 8051			
Renesas Electronics		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								•		•										



/ 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	PoweLine 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



	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	•												•	



	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	
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	•			up to 16	up to 16	up to 6GHz	up to 8	up to 40x
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	•	•																									
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		•				•	•																				
PolarFire SOC Family	28	•	•				•		•	•	(hard MAC) / 1G (soft IP) / 10G	6.375G, 12.7G			Gen2x4 (RC/EP)					5x								
Octavo Systems	SRAM	•								•							•	•	•									



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