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COTS Boards



PARTNER

SOC-E[®]

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[Premier](#)

CERTIFIED ENGINEERS

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PRODUCT/SERVICES

- Boards & Kits
- Embedded Products
- IP Cores

DESIGN COMPETENCIES

- Aerospace & Defense
- Space
- Industrial Automation
- Electric
- Automotive

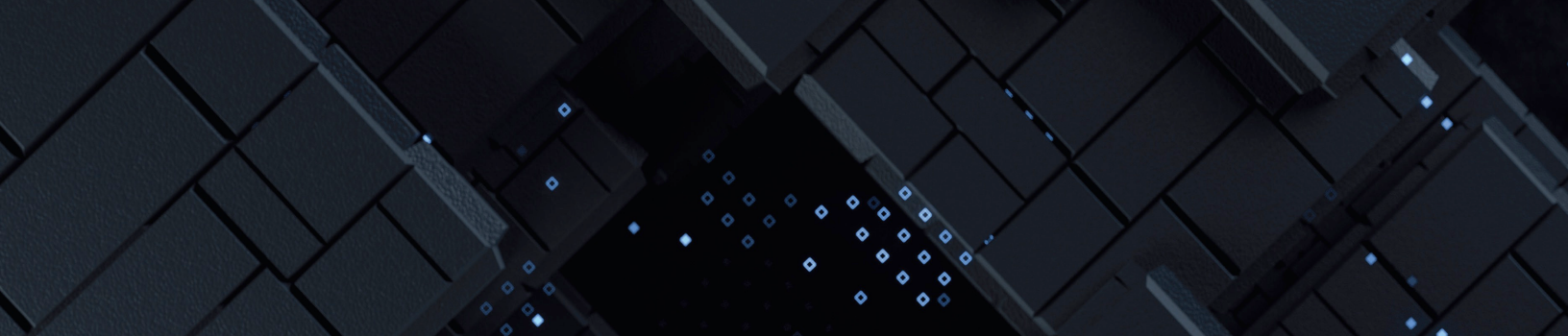


SOC-E is a worldwide leader and technology provider for high-availability and deterministic networking, sub microsecond synchronization and real-time cybersecurity for critical applications.

With a comprehensive portfolio of solutions covering from IP Cores (SocTek), licensed to third-party vendors, to added value End-equipment (RelyUm), the company is the perfect partner to address any evolution to the new generation technologies demanded by the Aerospace and Defense sector.

On the one hand, SOC-E has the greatest expertise in the market in the core technologies used in this transition: Ethernet, HSR/PRP, Time-Sensitive Networking, layer 3 routing, layer 2 and 3 encryption and authentication, layer 2 and layer 3 sub-microsecond synchronization. These core technologies are intended to make possible the complex developments required by military systems. SOC-E not only has this know-how, but has developed in-house its own technology, giving it an ability to adapt to customer requirements that is unmatched in the market.

In addition, it has a proven ability to design electronics to meet the most stringent operational and environmental requirements needed for modern combat. In response to the continued move towards real-time, high-bandwidth and open networks, SOC-E has developed the open architecture COTS Relyum Rugged product line, which combines the most highly available, low-latency networking technology with time server, edge computing and firewall capabilities in a field proven fully qualified hardware platform designed for the harshest conditions.

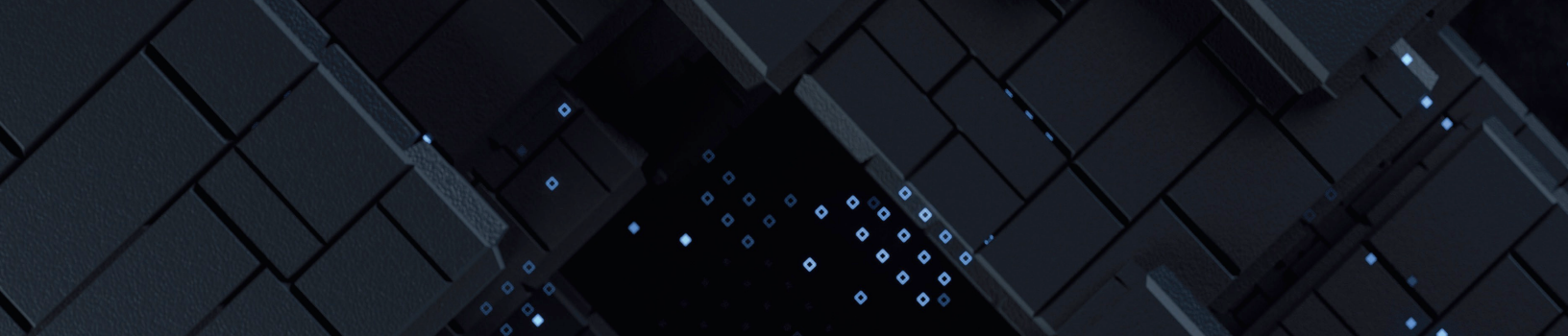


Product Name	FPGA	Form Factor	Standards & Compliance
RelyUm® Industrial			
RELY-TSN-PCIe	AMD Zynq™ UltraScale+™ MPSoC (XCZU3CG-1SFVA625I)	PCIe®	PCIe®
RELY-TSN4	AMD Zynq™ UltraScale+™ MPSoC (XCZU3CG-1SFVA625I)	Standalone Device	UNE-EN 61326-1:2013, UNE-EN 61326-2-1:2013
RELY-TSN12	AMD Zynq™ UltraScale+™ MPSoC (XCZU9EG-1FFVC900I)	Standalone Device	UNE-EN 61326-1:2013, UNE-EN 61326-2-1:2013
RELY-10TSN12	AMD Zynq™ UltraScale+™ MPSoC (XCZU9EG-1FFVC900I)	Standalone Device	UNE-EN 61326-1:2013, UNE-EN 61326-2-1:2013
RELY-10TSN20	AMD Zynq™ UltraScale+™ MPSoC (XCZU15EG-1FFVC900I)	Standalone Device	UNE-EN 61326-1:2013, UNE-EN 61326-2-1:2013
RELY-TSN-REC	AMD Zynq™ 7000 SoCs (XC7Z020-2CLG400I)	Standalone Device	UNE-EN 61326-1:2013, UNE-EN 61326-2-1:2013
RELY-TSN-LAB	AMD Zynq™ 7000 SoCs (XC7Z020-2CLG400I)	Standalone Device	UNE-EN 61326-1:2013, UNE-EN 61326-2-1:2013
RelyUm® Rugged			
MILS0800-SR	AMD Zynq™ UltraScale+™ MPSoC (XCZU4CG-1SFVC784I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-1275E
MILS0802-SR	AMD Zynq™ UltraScale+™ MPSoC (XCZU4CG-1SFVC784I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-1275E
MILS0802-SSR	AMD Zynq™ UltraScale+™ MPSoC (XCZU4CG-1SFVC784I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-1275E
MILS0802-10GM	AMD Zynq™ UltraScale™ MPSoC (XCZU5CG-1SFVC784I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-1275E
MILS0802-10TSN	AMD Zynq™ UltraScale+™ MPSoC (XCZU5CG-1SFVC784I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-1275E
MIL-SR/MIL-10SR	AMD Zynq™ UltraScale+™ MPSoC (XCZU9EG-1FFVC900I / XCZU15EG-1FFVC900I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-704F, MIL-STD-1275E, MOSA Aligned



Product Name		FPGA	Form Factor	Standards & Compliance
MIL-SSR/MIL-10SSR		AMD Zynq™ UltraScale+™ MPSoC (XCZU9EG-1FFVC900I / XCZU15EG-1FFVC900I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-704F, MIL-STD-1275E, MOSA Aligned
MIL-GM/MIL-10GM		AMD Zynq™ UltraScale™ MPSoC (XCZU9EG-1FFVC900I / XCZU15EG-1FFVC900I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-704F, MIL-STD-1275E, MOSA Aligned
MIL-TSN/MIL-10TSN		AMD Zynq™ UltraScale™ MPSoC (XCZU9EG-1FFVC900I / XCZU15EG-1FFVC900I)	Standalone Device	MIL-STD-461, MIL-STD-810, MIL-STD-704F, MIL-STD-1275E, MOSA Aligned
XMC-SR/XMC-10SR		AMD Zynq™ UltraScale+™ MPSoC (XCZU9EG-1FFVC900I)	XMC™ / XMC+™	VITA™ 42, VITA™ 61, VITA™ 42.3, SOSA™
XMC-SSR/XMC-10SSR		AMD Zynq™ UltraScale+™ MPSoC (XCZU9EG-1FFVC900I)	XMC™ / XMC+™	VITA™ 42, VITA™ 61, VITA™ 42.3, SOSA™
XMC-GM/XMC-10GM		AMD Zynq™ UltraScale+™ MPSoC (XCZU9EG-1FFVC900I)	XMC™ / XMC+™	VITA™ 42, VITA™ 61, VITA™ 42.3, SOSA™
XMC-TSN/XMC-10TSN		AMD Zynq™ UltraScale+™ MPSoC (XCZU9EG-1FFVC900I)	XMC™ / XMC+™	VITA™ 42, VITA™ 61, VITA™ 42.3, SOSA™
SocTek® Modules				
SMARTmpsoc		AMD Zynq™ UltraScale+™ MPSoC (XCZU3CG-1SFVA625I)	Module	PCIe®
SMARTzynq		AMD Zynq™ 7000 SoCs (XC7Z020-2CLG400I)	Module	B2B Connector
SMARTix		AMD Artix™ 7 FPGAs (XC7A50T-2FTG256I / XC7A75T-2FTG256I)	Module	B2B Connector
MEZU-A7G8		AMD Artix™ 7 FPGAs (XC7A50T-2FTG256I / XC7A75T-2FTG256I)	Module	SO-DIMM
Multiport FMC Board		NA	FMC (HPC)	ANSI/VITA™ 57.1

Product Name	FPGA	Type of Board	Standards & Compliance
SoCtek® IP Cores			
MES IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	10/100/1000M Ethernet Switch	Ethernet
TGES IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	10/100/1000M/10G (TSN) Ethernet Switch	Time-Sensitive Networking, IEEE P802.1DP, Ethernet
MTSN IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	10/100/1000M (TSN) Ethernet Switch	Time-Sensitive Networking, IEEE P802.1DP, Ethernet
ETSN IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	10/100/1000M/10G TSN Endpoint	Time-Sensitive Networking, IEEE P802.1DP, Ethernet
HPS IP Core	NA	FMC (HPC)	IEC61850, HSR, PRP, Ethernet
MRS IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	10/100/1000M/10G (TSN) Ethernet Switch	IEC61850, HSR, PRP, Ethernet
1588Tiny IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	PTP Slave	IEEE1588 (PTP)
PTB IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	PTP Ordinary Clock (Slave & Master)	IEEE1588 (PTP)
MultiSync IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	Redundant Time Synchronization	IEEE1588 (PTP), IRIG timecode (B)
IRIGtimeM IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	IRIG-B Master	IRIG timecode (B)
IRIGtimeS IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	IRIG-B Slave	IRIG timecode (B)
SPWN IP Core	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	SpaceWire Node	ECSS-E-ST-50-12C
NTS	AMD 7 Series FPGAs, AMD UltraScale™ FPGAs, AMD UltraScale+™ FPGAs/SoCs, AMD Versal™ Adaptive SoCs	Networking Testbench Suite	Not Applicable



All performance claims are provided by SOC-E and have not been independently verified by AMD. Performance benefits can be impacted by a variety of variables. Results herein are specific to SOC-E and may not be typical. GD-181.

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