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Product Portfolio

PACIFIC DEFENSE

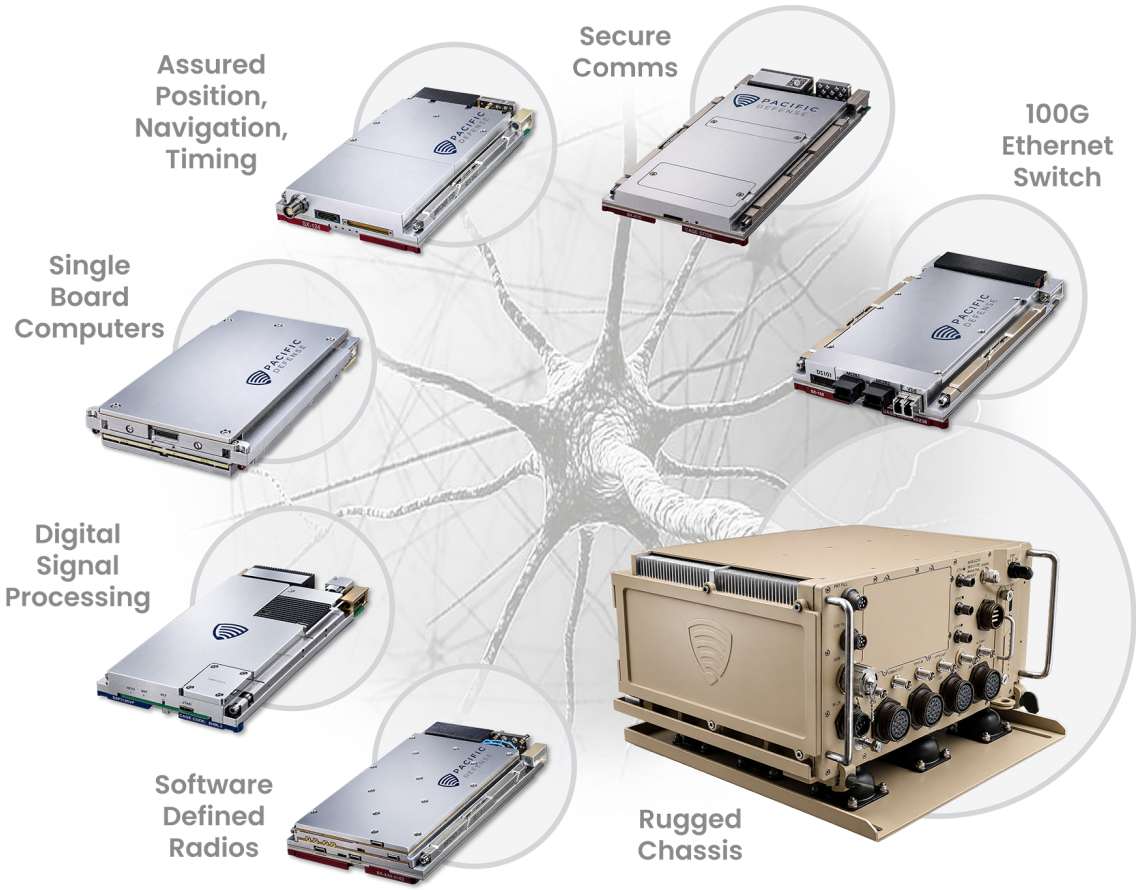
www.pacific-defense.com



ComScan®

Product Line

Integrated Multi-Mission Comms/EW/C5ISR Solutions



Model No.	Product Type	Description	Lifecycle Status
SX-124	Assured Position, Navigation, Timing	3U VPX, CMOSS/SOSA™ aligned assured PNT card, conduction cooled VITA 48.2	Released/Active
SX-153	Switch	3U VPX, CMOSS/SOSA™ aligned dual enclave 100G Ethernet card, Aldrin2/Lewis, conduction cooled VITA 48.2	Released/Active
SWH1530VP	Switch	3U VPX, CMOSS/ SOSA™ aligned dual enclave 100G Ethernet card, Aldrin2/Ironman, conduction cooled VITA 48.2	Prototyped/Active (release 3Q2026)
DSP3100VP	Digital Signal Processing	3U VPX, CMOSS/SOSA™ aligned DSP card, Versal Gen2 AI Edge ACAP, 100/10/1 GbE, conduction cooled VITA 48.2	In Development (release 4Q2026)
SBC3340VP*	Single Board Computer	3U VPX, CMOSS/SOSA™ aligned SBC, 64GB RAM, up to 6TB mass storage, 4x10/10 GbE, conduction cooled VITA 48.2	Released/Active
SBC3350VP*	Single Board Computer	3U VPX, CMOSS/SOSA™ aligned SBC 128GB RAM, 2TB M.2 drive, 100/10/1 GbE, conduction cooled VITA 48.2	Released/Active
SX-430	Software Defined Radio	3U VPX, CMOSS/SOSA™ aligned 4-channel (2Tx/2Rx) wideband SDR transceiver, 40/1 GbE, conduction cooled VITA 48.2	Released/Active
SDR4320VP	Software Defined Radio	3U VPX, CMOSS/SOSA™ aligned 4-channel (2Tx/2Rx) ultra-wideband SDR transceiver, Gen 2.0, 100/1 GbE, conduction cooled VITA 48.2	Prototyped/Active (release 3Q2026)
GPU5300VP*	GPGPU	3U VPX, CMOSS/SOSA™ aligned GPGPU, PCIe data interface	Released/Active
SX-610	COMMS TSM MANET	3U VPX, CMOSS/SOSA™ aligned mobile ad-hoc network (MANET) card with the TrellisWare® TSM radio, conduction cooled VITA 48.2	Released/Active
SX-620	COMMS MN-MIMO	3U VPX, CMOSS/SOSA™ aligned mobile networked MIMO waveform radio card, conduction cooled VITA 48.2	Released/Active
SX-920	Rugged Chassis	3U VPX, CMOSS/SOSA™ aligned ATR-style rugged chassis, 11 slots, 100GbE backplane, supports conduction cooled VITA 48.2 cards	Released/Active
SX-922	Rugged Chassis	3U VPX, CMOSS/SOSA™ aligned front loading rugged chassis, 7, 11 or 13 slots, 100GbE backplane, supports conduction cooled VITA 48.2 cards	Released/Active
SX-923	Rugged Chassis	3U VPX, CMOSS/SOSA™ aligned side loading rugged chassis, 9 slots, 100GbE backplane, supports conduction cooled VITA 48.2 cards	Released/Active
RCH9090VP	Rugged Chassis	3U VPX, CMOSS/SOSA™ aligned, 9 slots, Gen 2, 100GbE, VITA 48.2 cards	Released/Active
RCH9140VP	Rugged Chassis	3U VPX, CMOSS/SOSA™ aligned, 14 slots, Gen 1, 100GbE, VITA 48.2 cards	Prototyped/Active
EWS1000VP	EW Platform	3U VPX, CMOSS/SOSA™ EW digital transceiver processing platform	Released/Active
MCS2000VP	COMMS Platform	3U VPX, CMOSS/SOSA™ COMMS transceiver processing platform	Released/Active
ICS3000VP	CMOSS Platform	3U VPX, CMOSS/SOSA™ Integrated SOSA/CMOSS processing platform	Released/Active

[1] Supporting Embedded Development Kit (EDK) and/or Software Development Kit (SDK) available for purchase with products.
[2] 3rd party products available for procurement through Pacific Defense

Applications

- Multi-Function Communication
- Electronic Warfare (Attack / Support)
- Signal / Electronic Intelligence
- Networking and Distributed Network Processing
- Cyber Security Solutions
- Edge Computing
- Satellite Data Link
- Sensor Fusion
- Fixed or Mobile Tactical Operations
- Assured Positioning, Navigation, and Timing

INNOVATIVE

DEFENSE & COMMERCIAL SOLUTIONS

CMOSS SOSA Sensor Open Systems Architecture MEMBER OpenVPX

Pacific Defense is designed to support the DoD's disciplined movement to modular open standards and to mirror the way military services address EMS warfare – holistic mission planning and execution. The company's approach inherently enables what it refers to as a rapid prototyping paradigm – embedding a commercial mentality into the defense industry. Products are designed from the outset for modern, AI-driven autonomy and CMOSS and SOSA-aligned hardware and software solutions. This includes state-of-the-art processing that can readily follow the evolution of commercial technology with complete data sharing across networks and platforms.

Headquartered in El Segundo, California, Pacific Defense takes an organic, commercial-minded approach to military-use electromagnetic spectrum technologies, and solutions. Focus areas include autonomous systems, command and control, communications, cyber operations, intelligence collection, and electronic warfare. Spectranetix, Perceptronics, and Spear Research are part of the Pacific Defense family, specializing in highly-advanced RF spectrum technologies, and engineering with innovative AI-backed algorithms.

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