North Atlantic Industries
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AMPU - Adjunct Mission Processing Unit

MOSA, SOSA™ and AMCE-aligned adjunct processing systems Accelerate Time-to-Mission!

Scalable, modular, flexible, configurable and adaptable adjunct processing solutions allow deployable solutions in less time with no NRE to meet or exceed new or existing platform requirements. The ecosystem of air/convention or conduction-cooled SIU32S, SIU34S and SIU36S offers a Modular Open Systems Approach (MOSA) to rugged systems ideally suited to support a wide range of Mil-Aero applications that require adjunct processing, high-density I/O, communications, Ethernet switching, A-PNT, Video Capture, Graphics Processing, Machine Learning and Artificial Intelligence applications. These systems leverage NAI's Configurable Open Systems Architecture™ (COSA®) 3U OpenVPX SOSA™-aligned boards, smart function and XMC modules to deliver off-the-shelf solutions that accelerate deployment of SWaP-optimized systems in demanding air, land and sea applications.

Conduction-Cooled Chassis	Product Features	Air/Convection-Cooled Chassis
	Model: SIU32S - 2x 3U SOSA™ OpenVPX Card Slots - Supports up to 6 I/O and/or communication smart function modules.	
	Model: SIU34S - 4x 3U SOSA™ OpenVPX Card Slots - Supports up to 12 I/O and/or communication smart function modules.	
	Model: SIU36S - 6x 3U SOSA™ OpenVPX Card Slots - Supports up to 18 I/O and/or communication smart function modules.	

	Conduction	Convection
Dimensions (w x h x d)	6.0" x 4.6" x 9.5"	6.2" x 4.8" x 9.5"
Weight lbs.	~6.6 lbs.	~6.9 lbs.

	Conduction	Convection
Dimensions (w x h x d)	7.8" x 5.1" x 9.5"	6.0" x 7.2" x 9.5"
Weight lbs.	~16.8 lbs.	~19.8 lbs.

	Conduction	Convection
Dimensions (w x h x d)	10.0" x 5.1" x 9.5"	6.1" x 9.5" x 9.5"
Weight lbs.	~22.5 lbs.	~23.1 lbs.

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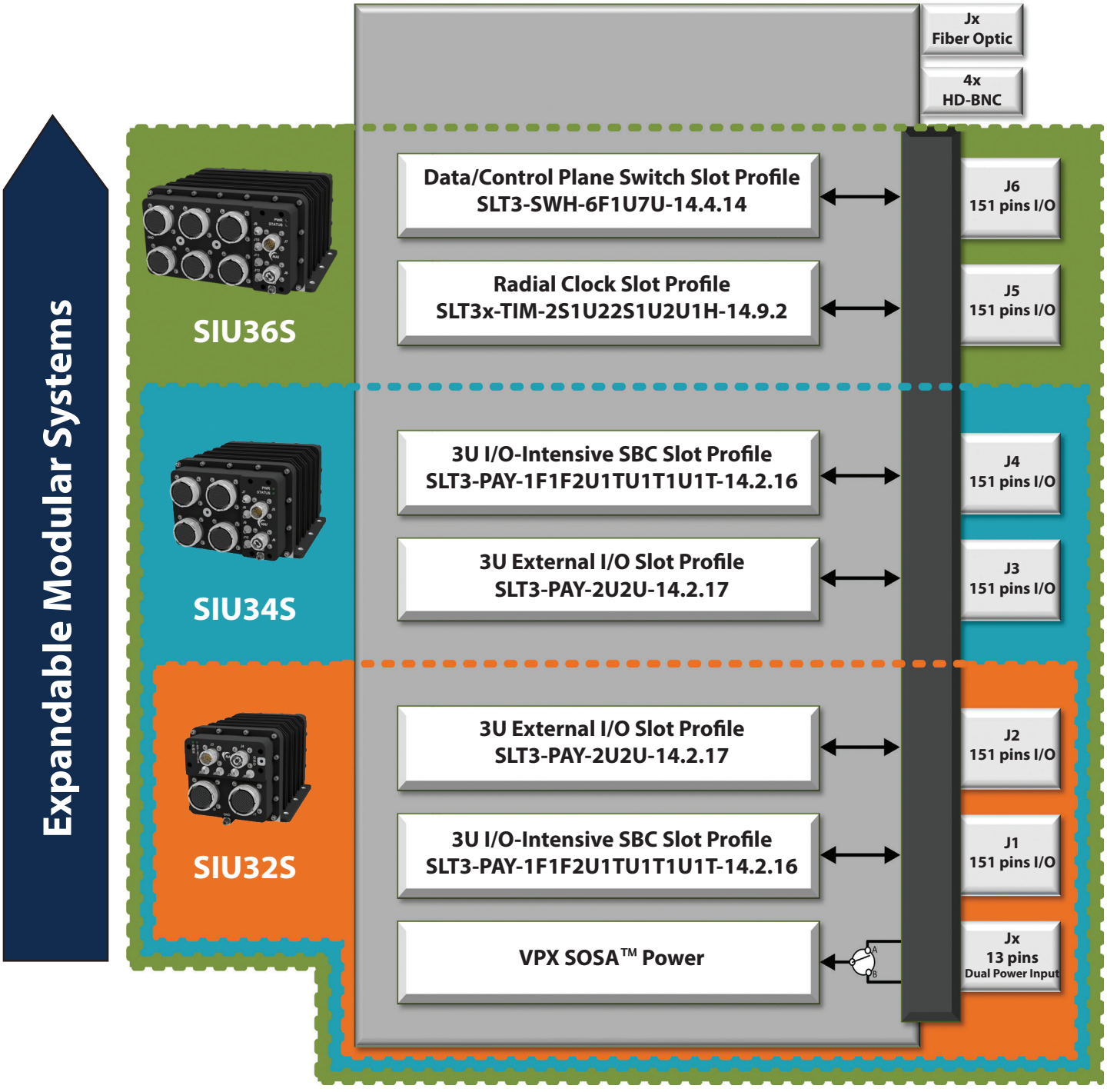

Easily scale your system configuration as interface requirements develop with two, four or six slot SOSA™ chassis without changing software. Each chassis slot supports multiple SOSA™ module profiles and routes I/O to dedicated HD38999 type connectors. Fiber and video interface options are available. Choose between conduction-cooled or air/convection-cooled chassis configurations.

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