Pixus Technologies
PRODUCTS & SERVICES

OpenVPX, SOSA-Aligned, & Specialty Enclosure Systems

- Chassis Platforms
- Backplanes
- Components
- Subsystem Integration

piXus
TECHNOLOGIES

www.pixustechnologies.com

ABOUT PIXUS TECHNOLOGIES

Pixus designs and manufactures MIL rugged and commercial enclosure systems for the embedded computing market. The company specialized in COTS solutions for OpenVPX / SOSA™ as well as other modular open standard architectures including AdvancedTCA, MicroTCA, VME, CompactPCI Serial, PXIe, and more.
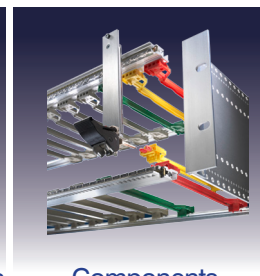

Rittal building in Asia
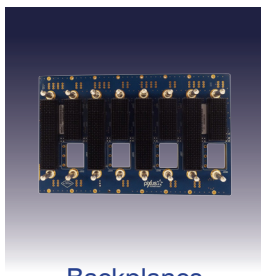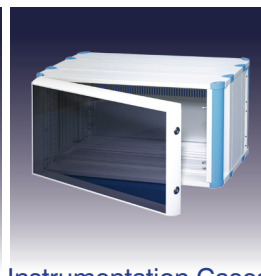
| Chassis Platforms | Backplanes | Instrumentation Cases | Components | Specialty Products |

- Manufacturing/integration in Canada, USA, Asia, and Europe
- Superior, dedicated service
- Excellent quality & reliability
- Nimble approach means best & most cost-effective solution
- Engineering expertise in electrical, mechanical, and integration
- Privately owned
- Established 2010 at HQ in Waterloo, Ontario (Canada's Technology Corridor)
- ISO9001:2015 and ITAR registered

Achievements

ISO9001   **ITAR/CGP**   **VITA**   **PICMG**   **SOSA**
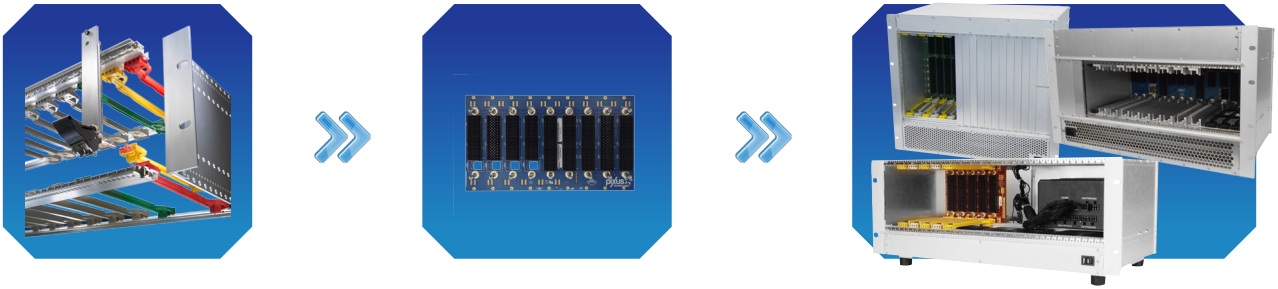
"MODULAR DESIGN FOR VIRTUALLY UNLIMITED CONFIGURATIONS"

The Pixus modular design approach allows a wide range of tailored chassis configurations utilizing COTS standard parts. Our comprehensive experience in OpenVPX designs, including versions aligned with the SOSA technical standard, make Pixus the preeminent choice for high-performance chassis platforms:

- OpenVPX, CMOSS, HOST, and SOSA Aligned solutions
- VITA 66 (optical) and VITA 67 (RF) interface expertise
- Cooling solutions in forced air, conduction, Air Flow Through (VITA 48.8), liquid cooled (VITA 48.4), and hybrid solutions
- Shelf management per VITA 46.11
- Commercial and MIL Rugged designs
- Other backplane architectures including AdvancedTCA, MicroTCA, cPCI Serial, VME, and more

SOSA™
Sensor Open Systems Architecture

Horizontal Mount OpenVPX designs,
3U/6U Hybrid Options

Dual 3U Segment for OpenVPX,
3U/6U Hybrid Options

" ADVANCED COOLING SOLUTIONS "

Pixus offers some of the most powerful cooling solutions in the industry. The patented RiCool™ technology provides an efficient design of hot-swappable fans that reside directly above the card cage and blow the heat 90 degrees out the back of the system. This allows the use of RTMs (Rear Transition Modules) while providing advanced cooling in minimal chassis rack height.

VITA 48.8 Air Flow Through Module Card Guide Tray
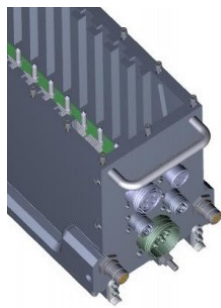
VITA 48.4 Liquid Flow Through Sidewalls
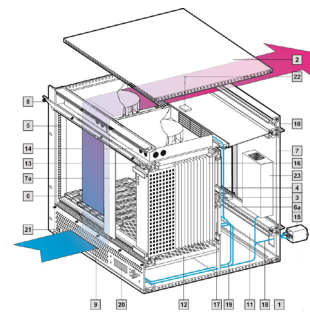
Designs for Efficient Airflow, Powerful Cooling

## "HIGH VERSATILITY, FAST DELIVERY"

The Pixus open frame chassis are ideal for testing and development of SOSA / OpenVPX systems. The power and ground only backplane offers maximized versatility for prototyping. The backplane is often used in conjunction with Meritec® VPX cabling for a highly versatile approach with optional VITA 67.x and/or VITA 66.x interfaces. Versions with dual depths (160mm/220mm boards) for SpaceVPX™ and options with removable sidewalls are also available.
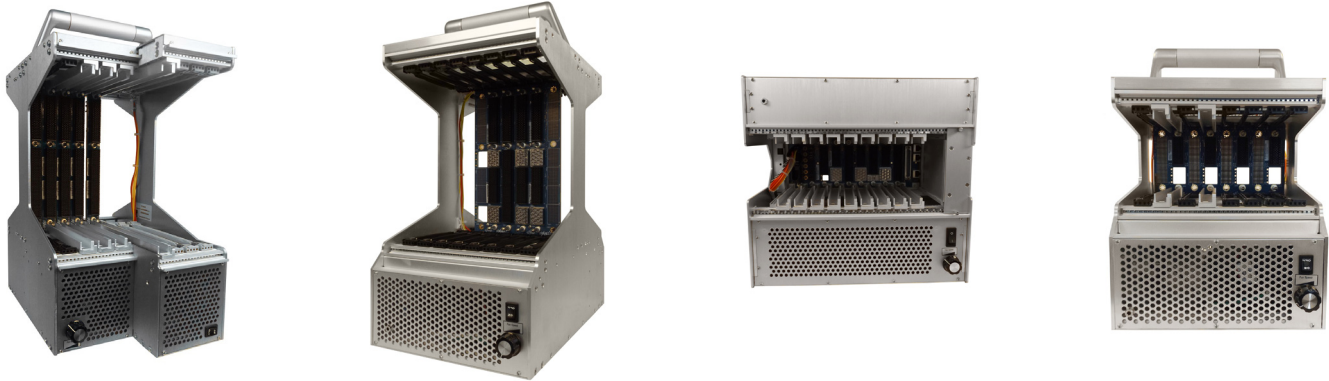
BACKPLANES

"HIGH-PERFORMANCE DESIGN SPECIALISTS"

Pixus specializes in high-performance backplane design, including speeds to PCIe Gen4, 100GbE, and beyond! Our wide range of standard and customizable OpenVPX / SOSA profiles includes various versions with VITA 66.x and 67.x interfaces. Backplane simulation services are also available.
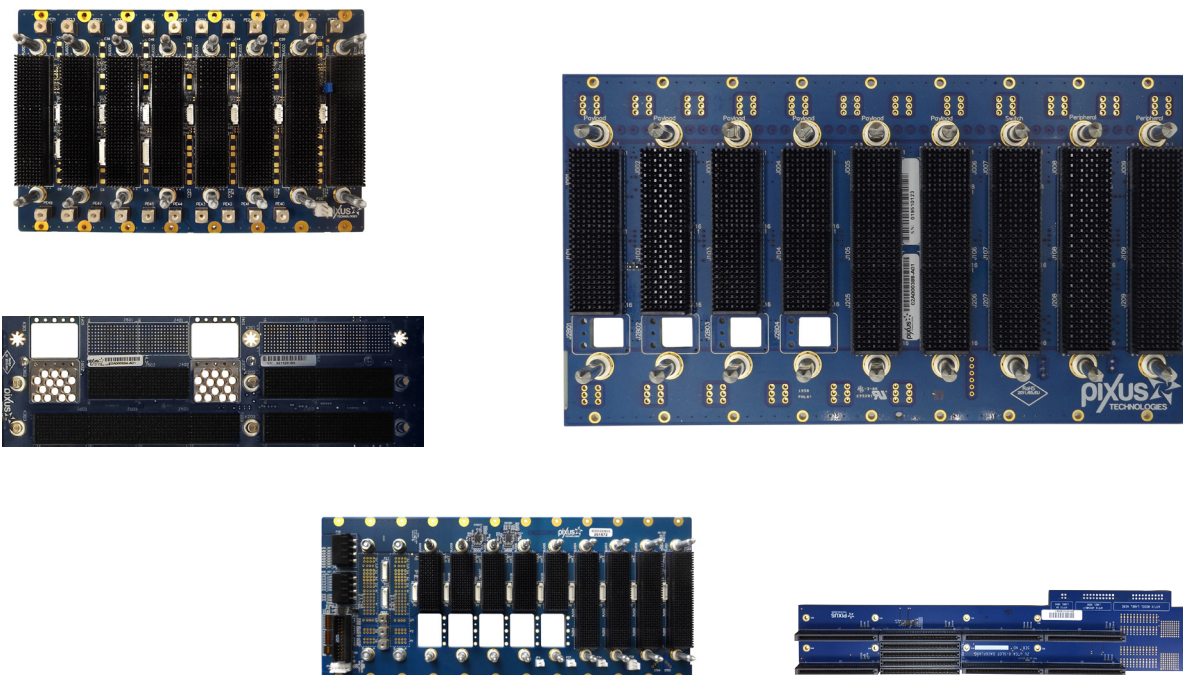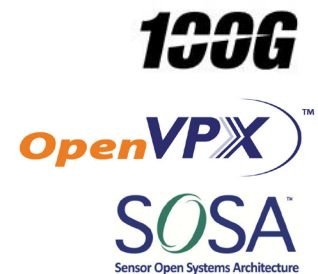
"VERSATILE, RUGGED & PROVEN"

Pixus offers a wealth of MIL rugged 19" rackmount and ATR designs for deployable applications. This includes OpenVPX / SOSA versions for the leading-edge 100GbE speeds and high wattage boards demanding superior cooling. Pixus offers air, conduction, heat exchange with fans, air flow through (VITA 48.8), and liquid cooled through the sidewalls (VITA 48.4) solutions.
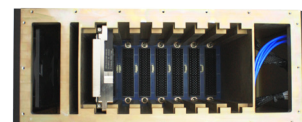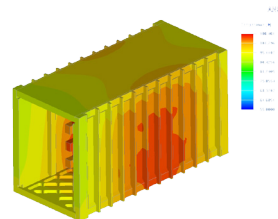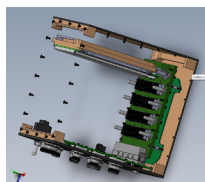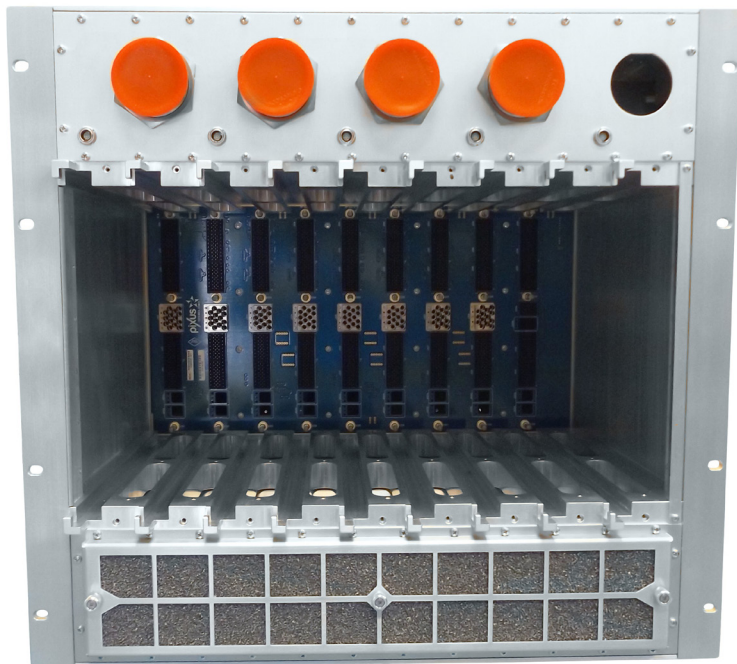
Pixus also offers ruggedized versions of Ettus Research™ brand of NI Software Defined Radios (SDRs), as well as other specialty Small Form Factor (SFF) enclosures.
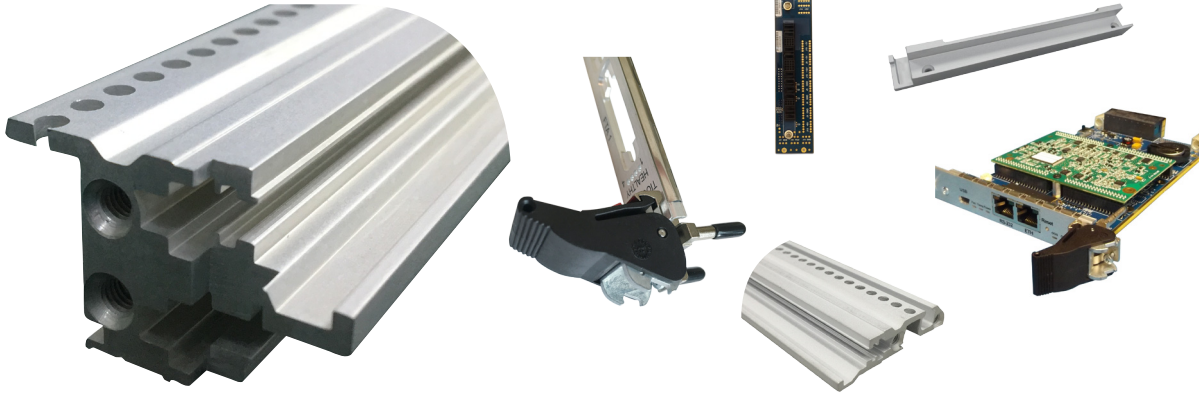
IP 67 weatherproof version

MIL rugged version with 38999 interfaces

## "HIGHEST RELIABILITY, STRONG AND PRECISE"

No breaking handles!
Rugged rails that don't bend or crack!

Our vast array of embedded system chassis platform components in the Eurocard format includes a complete line of components designed specifically for OpenVPX. This includes specialty card guides, panels/filler panels, threaded inserts, rugged rails, and more! The Pixus rugged rail is designed for the high insertion forces of OpenVPX. Our injector/ejector handles feature a rugged metal engagement claw that prevents wear or cracking.

INSTRUMENTATION CASES

"MODULAR VERSATILITY & STYLE"
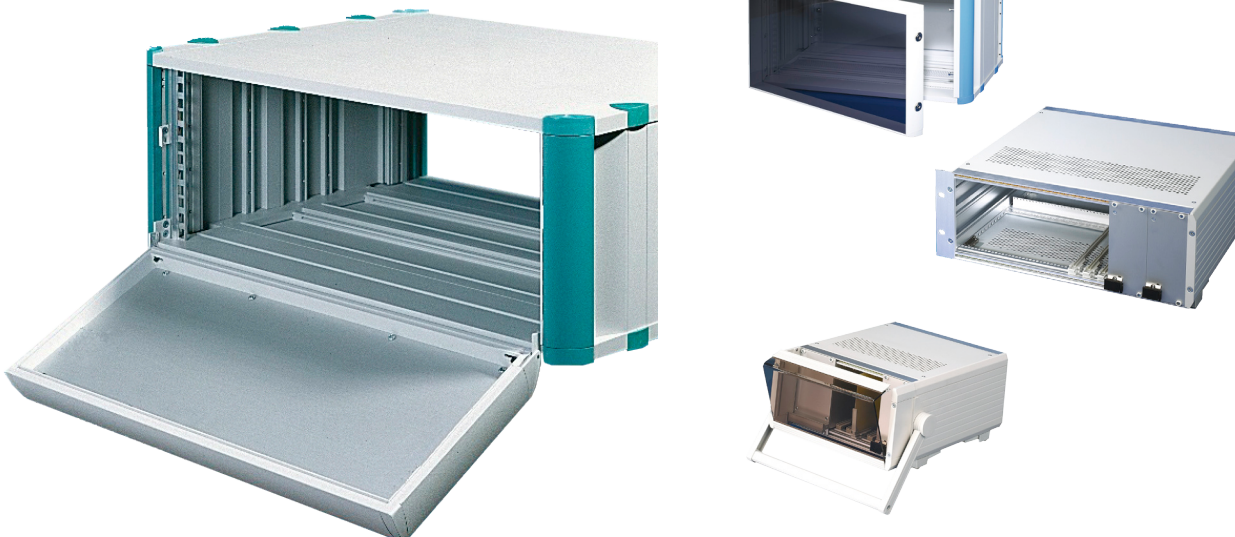
We offer a vast array of Rittal brand modular electronics enclosures in premier RiCase and versatile Vario styles.

The modular approach allows a wide range of standard heights (1U-12U), widths (19", 9.5", other), and depths (150mm to 540mm). Rugged Vario Mobile/Railway versions are available.

- Medical
- Energy/Industrial
- Test/Measurement
- Communications
- Defense
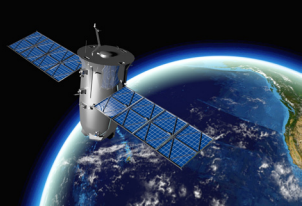
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