alligator

an AS9100C Company

Who we are   What we do   Why we matter

— CORPORATE PROFILE —

ALLIGATOR DESIGNS PVT LTD

www.alligatordesigns.com

WHO WE ARE

Alligator Designs (Wholly owned subsidiary of Trident Infosol Pvt. Ltd.) is engaged in providing cutting-edge technology in Rugged Electronic Packaging Systems and caters to the Embedded System needs of various industrial segments like Research & Development Establishments, Defense & Military Organizations, Aerospace and Various other Industries. With In-house Engineering and Manufacturing Capabilities, we offer solutions which are scalable, modular and optimal for Seamless Integration into variety of demanding Applications. Our product line spans from Embedded Boards, Backplanes, ATR's, Enclosures, Display Consoles & Systems, Racks, Ethernet Switches, Rugged Servers & Storage, Power Products to fully Integrated Systems with which we are able to address the complex requirements of every customer.

Vision:

"To emerge as the most preferred technological partner and be a potential business associate in the field of Strategic Electronics and Avionics for Defense and private sector companies by providing cost effective, competitive and customized solutions for Electro Mechanical application on an integrated approach and turnkey philosophy."
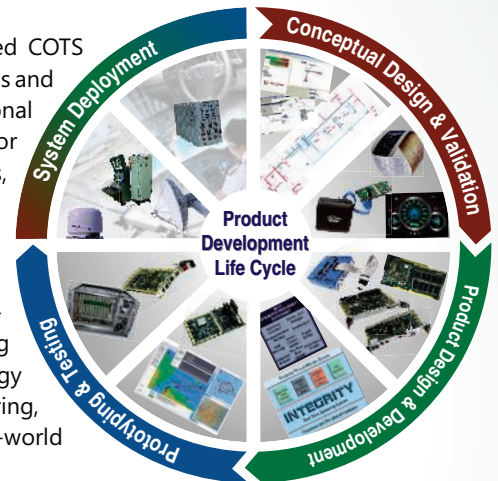
Mission:

- To be a major supplier of Strategic Electro Mechanical and Avionic system for Global Military and Aerospace Industry.
- To develop cutting edge and end to end solution by innovative design and development.
- To be active partner in system level solutions for Defense, Aerospace and Industrial applications there by adding value to all stake holders"

Since our inception, we have been successfully providing solutions to a number of complex applications and projects. We have vast experience in delivering Open System Architecture like PCI, cPCI, VME, VXS and VPX subsystems. With our unique mix of Mechanical, Electrical and Application design expertise and hands-on-experience with high performance and mission critical application solutions for more than 10 years, we are able to provide System Integration solutions and Product Customization for Aerospace & Defense Applications.

Our parent company Trident Infosol is a leading solutions provider for Embedded COTS Hardware, Signal Processing Systems, Telemetry Systems, Power Management Systems and Engineering Software catering to the Real-Time applications. With our Operational Headquarters located in Bengaluru, India we support a wide range of applications for the Aerospace, Defence, Research & Development, Automotive, Telecommunications, Medical and Industrial segments.

Thereby, together, the Trident-Alligator group caters to the Embedded COTS Hardware, Engineering Software, Testing Tools/Systems and System Integration needs of product developers and researchers over their complete product development life-cycle. The combination of our superior Technology and Engineering expertise along with our wide array of product and service offerings make us a unique technology partner. Our engineers have a strong background in the Design, Manufacturing, Development & Testing, Integration and Deployment of solutions for challenging real-world system applications.

Infrastructure & Facilities

We have an integrated state-of-the-art Design, Development, Manufacturing and Testing facilities with extensive work-floor spanning over 35,000 sq. ft. Our sophisticated infrastructure is coupled with an array of advanced workstations, robust design & development tools (3D CAD, Structural & Thermal Analysis, Cabling, PCB and System Design), cutting-edge computing and network systems. This provides an ideal and excellent environment for our skilled professionals to support large and mission critical applications of various customers.

The sprawling Integration Labs help us combine our efforts in delivering fully integrated systems to our customers for their specific application requirements. Our advanced testing facilities include Set-up for PCB Inspection and Backplane Testing (SerDes), Power Supply Testing, Drip Test, Vibration & Shock Test, Thermal and Humidity Chamber (-70°C to +180°C).

With Design, Engineering, Manufacturing, Integration, Testing, Configuration Management, Project Management, Quality Assurance, Technical Support Services and Sales Teams under one roof, we provide expert services to all our customers enabling them to focus on their product/system development through its entire life-cycle. Alligator has evolved and continuously improved on project management processes and quality management system culminating into an AS9100C certified company.

WHAT WE DO

Recognizing the technological and economic challenges faced by the customers in today's competitive market place, we offer range of products, solutions and system integration services for various applications meeting demanding environmental conditions.

Solutions

Board Design

Design Capabilities include Multi-platform High Speed Backplanes, High Speed Digital, Analog and Mixed signal boards, Schematics, Multilayer PCB Layout (Placement & Routing), Signal Integrity Analysis.

Software Porting & Driver Development

Customized BSP & Device Driver Development, Porting Services can be implemented for:

- Leading OS Platforms (Integrity/Windows/Linux/VxWorks)
- Processor Architectures (Power PC, x86, ARM)
- Bus Interfaces (PCI, PCI-e, VME, USB, I2C, SPI)
- Avionics Interfaces and General Purpose I/O

Custom Packaging

Applications demanding specific Form, Fit, Function and Environmental conditions are not available off the shelf. Alligator Designs provides Custom Design solutions for all such challenges.

Customization Services are available across our entire product line.

System Integration

- COTS Hardware
- Customized Hardware
- BSPs and Drivers
- Custom Interfaces
- Custom Packaging
- Integration and Functional Testing

Qualifications & Testing

In-house facilities for:

- Thermal & Humidity Chamber
- Shock & Vibration
- Drip Test

Products

ATR	**UNICORN Series:** Convection Cooled. **RHINO Series:** Conduction / Forced Air Conduction / Liquid Cooled. Configurable Backplanes & Power Supply options
Racks & Display Consoles	**Ccoral Series:** Single, Dual & Triple Display Consoles with Displays upto 24" **TAURUS Series:** Rugged Racks, 18U to 42U
Backplanes	**Blaze Series:** VITA & PICMG backplanes, VPX, VXS, VME, cPCI, Hybrid – VME + VPX, VME + VXS & RF + Digital (Mixed Signal)
Power Supplies	**Helios Series:** DC & AC (1Φ, 3 Φ) Air Cooled & Conduction Cooled Power Supplies compliant to MIL-STD-704, MIL-STD-461
Servers	**STALLION Series:** 2U & 4U Servers, Single or Dual Xeon, Compliant to MIL Standards
Ethernet Switches	**NETSpyder Series:** 08 to 24 port Gigabit Ethernet switches with Layer 2 & 3 Switching Capabilities Compliant to MIL Standards
Storage Platforms	**ExSTOR Series:** NAS/RAID Systems upto 4 TB, Rugged PMC & XMC up to 256 GB
Integrated Systems	Single & Multi-processor Computing, IOs, Audio, Video, Graphics, Avionics Interfaces, rugged Chassis with Backplane & PSU, BSPs & Drivers for Various OS, Wiring, Connectorization & Acceptance Testing

Successfully Deployed Projects

Avionics Applications
- → 3-slot 3U VPX ATR Chassis for UAV
- → 6-slot 3U OpenVPX Mission & Payload System with RF
- → 8-slot cPCI Integrated System
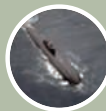- → Operator Station with 24" Display & VME Control

Aerospace / Ground Stations Applications
- → Mission Computer
- → Fire Control System
- → ATE : Simulator

Naval Applications
- → Triple Display Command Console
- → 28U Data Display Unit
- → 42U Radar Signal Processing Unit
- → 22U Diesel Engine Monitoring System

Mobile & Shelter Applications
- → Dual Display Command Control Unit
- → Missile Launch Computer
- → Portable Radar Central Unit
- → Missile Launch Computer & Simulator

WHY WE MATTER

The Trident-Alligator group offers a Single Source for all your development needs related to Software, Hardware, Design Services and Fully Integrated Systems for a range of Applications. We are an End-to-End Solution provider catering to your complete product development life-cycle right from concept design to final acceptance test and beyond - meeting customer requirement specifications and standards, assuring continued product support. While bringing affordability for you with our cost-effective solutions, reuse of existing design for customization, flexibility to work on limited volume production, we also support your short development cycles with reduced risk ensuring faster time-to-market. The combination of our superior Technology and Engineering expertise along with our wide array of product and service offerings make us a unique technology partner.

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