



## COMPANY PROFILE

# Rug-Rel Components & Systems Pvt. Ltd.

(Formerly known as Hi-Rel Components & Rugged Systems)

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# About Rug-Rel




## Company Profile

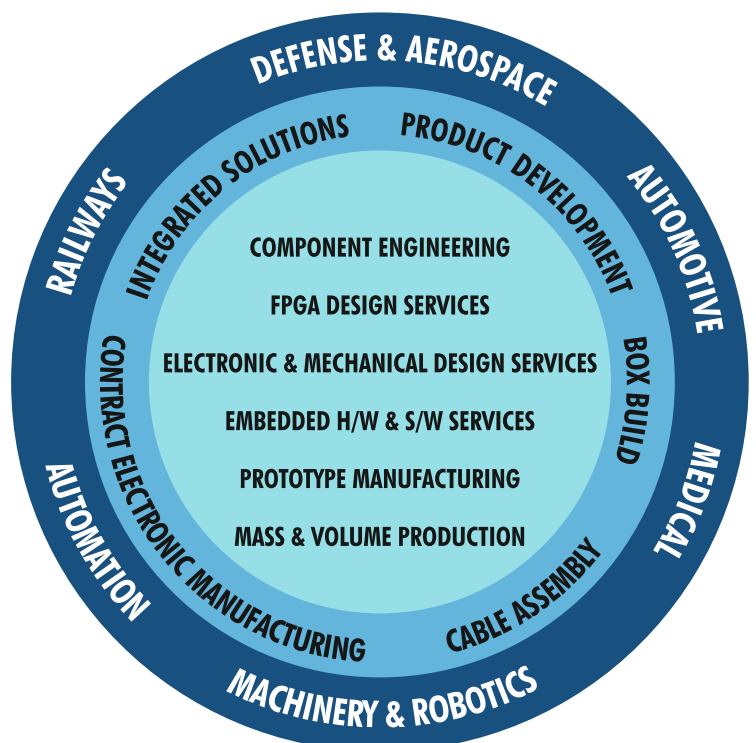
Rug-Rel Components & Systems Pvt. Ltd. is a technology-oriented Products & Services company specialized in the field of design, development, manufacturing, assembly, integration, harnessing and testing of the sophisticated electro-mechanical sub-systems and mission critical systems. Rug-Rel is the platform of technically qualified and professionally experienced engineers with the strong know-how & in-depth expertise in the area of embedded hardware & software, component engineering, proto building, manufacturing services, cable assembly & wire-harnessing and sub-system / system integration. Our expertise clusters around the embedded hardware design services and industry renowned bus architectures like VME64X, VXS, VPX, cPCI, mTCA & ATCA, . Linked with these architectures we support our customers from the key market segments like Defense, Avionics, Transportation, Energy, Automation, Machinery & Robotics, Medical, Telecom and Automotive, with both standard & customized solutions.

## Design & Manufacturing Services

Our key strength lies in the design & manufacture of Motherboards & SBCs, Architecture (VME, VXS, VPX, cPCI, MTCA & ATCA) based Backplanes Solutions, Customized Chassis, ATR Boxes, Mechanical Racks, Test Jigs, Industrial & MIL-Grade Panel PCs, Industrial & Rugged Monitors, Rugged Servers, Rackmount PCs, Box PCs, Cabinets, Single & Dual Monitor Consoles and Special Electronic Components like Connectors, RF Components, Fiber Optic Components, Cable Assemblies, etc.

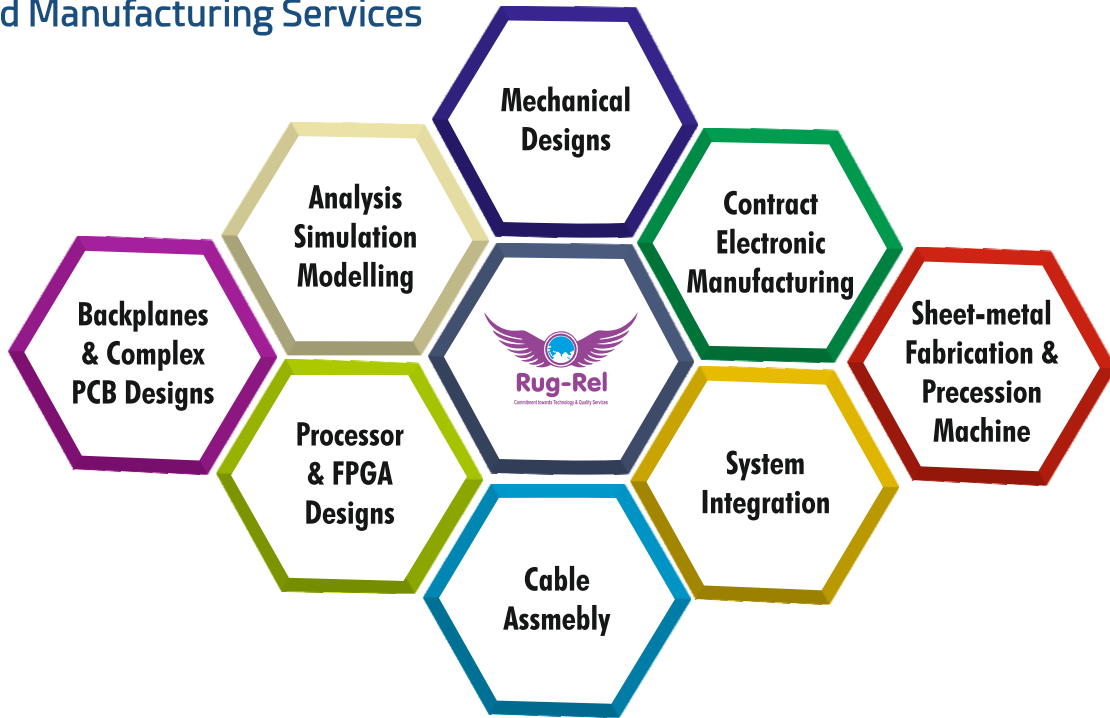
## Technology Pool

-  Rug-Rel Competencies
-  Rug-Rel Services
-  Rug-Rel Markets

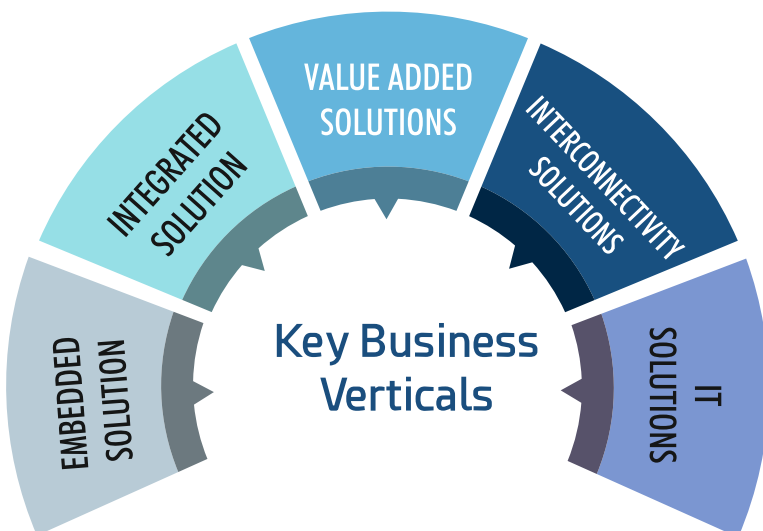


# Core Competencies

## Design and Manufacturing Services

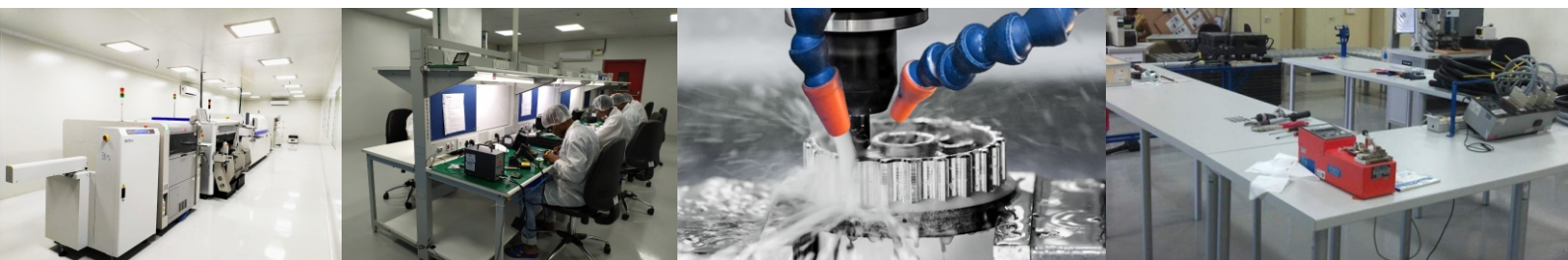


1. Micro processor, Micro controller, FPGA & CPLD based Designs
2. High speed standard and customized backplane solutions
3. Simple and complex mechanical designs
4. SI analysis, Thermal simulation, Modelling and design verification
5. Precision machining & Sheetmetal fabrication
6. Backplane assembly and contract electronic manufacturing
7. Cable assembly and wire harness
8. Sub system and system integration



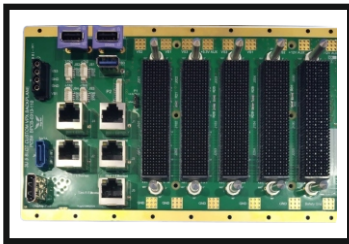
## Global Technology Alliances

- New Wave DV, USA
- OLMEC, UK
- VEROTEC, UK
- Palmsys Consulting Ltd. UK
- iBASE, Taiwan



# Products

## Backplanes



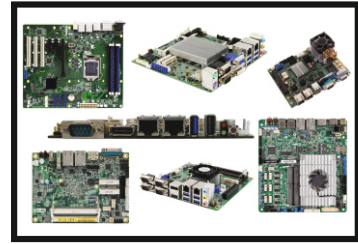
Standard & Customised Backplane Solutions confirming VITA Architecture

## Power Supplies



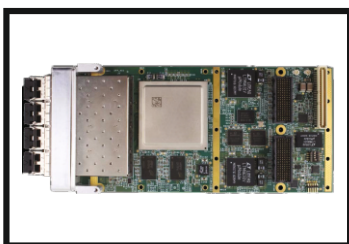
Standard & Customised VITA65 MIL-Compliant Conduction Cooled 3U & 6U Plug-In PSUs.

## Mother Board & SBCs



3.5" SBC, Mini-ATX, ATX, COM Express, ETX CPU Module & CPU Cards.

## Edge Computer



Xilinx Zynq SoC based FPGA boards for ADAS, Mobility, Intelligent Transport Systems, Security & Surveillance, Automation, Robotics & Smart spaces.

## Embedded PCS



Standard & Customised Box PCs and Panel PCs of Industrial & MIL-Grade for all Embedded Computing Applications

## Driver Drowsiness Detection



AI based Car and Truck safety technology system to prevent road accidents due to drowsiness and negligence of the drivers while driving .

## Sub-Racks & Chassis



Sub-Racks & 19" Rack-Mount Chassis modular platforms for military, telecom, railway, and test and measurement applications. These products are shock & vibration resistance and EMI/EMC Protected.

## Flights Cases & TECS



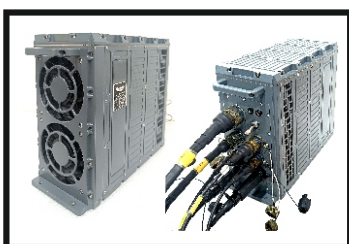
Aluminum Flight Cases with the Thermo-Electric Cooler for transporting and storing sophisticated & critical electronic components & systems in extreme environment conditions.

## Cabinet & Console



Customized Rugged Naval Enclosures, Consoles & Cabinets for Naval Applications. Our Products are qualified for MIL-810G, MIL-910D, MIL-461E/F standards.

## Radar Computer



Heart & Brain of the Anti-Drone system to detect, track, identify, classify and neutralise drones at a distance of several kilometers.

## ATRS



The Air Transportation (ATR) - Conduction Cooled, Sizes from 1/2 ATR to 3/4 ATR meet MIL-STD-810, MIL-STD-167 & MIL-STD-901 standards

## Rugged Tablets & Laptops



Rugged, Durable, IP Protected and Portable Tablets & Laptops for reliable operations under extreme conditions