

## Overview

Technovare has been providing Engineering Design Services to the Space and Defense market for over 18 years. With complete turnkey Engineering Design Services ranging from system design thru prototype manufacturing, Technovare is well suited to meet the needs of any Quick-Turn or High-Rel project.

Whether it's just performing a board layout or taking on a complete multi-slice unit design, Technovare's multi-disciplined engineering staff is available to augment its customer's own design capabilities. Technovare's focus on Space and Defense systems has enabled it to develop the rigor and design processes required for developing High-Rel hardware and software. These processes include top down requirements allocation, worst case analysis, fault grading, software FQT, formal design reviews, and exhaustive documentation.

Technovare's ability to develop Quick-Turn prototypes with a direct migration path to High-Rel production is at the cornerstone of the companies Engineering Design Service business. Technovare strategy of partnering with best of class fab, assembly, and test facilities allows it access to top of the line equipment and fabrication capabilities without the associated overhead..

## Systems Design

- Space and Defense: Command and Data Handling, Mass Memory, Communications
- Standalone Test Systems
- Video Systems: Compression, High Definition
- Networking: IP, Encryption, Streaming Media
- Android Appliances

## Hardware Design

- Schematics, WC Analysis, PCB layout
- Thermal/Stress analysis, 3-D modeling
- Mentor and Cadence tools



## FPGA/ASIC Design

- Chip architecture and specification
- VHDL, Verilog, Systems Verilog, and Systems C Coding/RTL Design
- IP Integration
- UVM/OVM verification
- Design optimization, timing closure, and DFT
- FPGA: Xilinx, Altera, Actel
- ASIC: IBM, TSMC, Honeywell, Aeroflex, BAE
- FPGA to ASIC Conversions
- Mixed Signal Design
- Physical Design and Layout
- Synopsys and Mentor tools

## Software Development

- Windows, Linux, Android, VxWorks
- X86, ARM, PPC, MIPS
- Flight software, real time embedded systems, hardware drivers, GUIs, test software
- Android applications

## Prototype Support

- PCB Fabrication
- PCB/Unit Assembly
- Functional Test
- Qualification: Thermal, TV, Vibe, EMI