



PARPRO

Partners in Production and Design

AEROSPACE & DEFENSE

LOW TO HIGH VOLUME, SIMPLE TO COMPLEX PRODUCTS



DESIGN SOLUTIONS & MANUFACTURING SERVICES

AEROSPACE & DEFENSE

DESIGN & ENGINEERING

>> Embedded Hardware

PARPRO specializes in the design, development and manufacturer of rugged single board computers for the most demanding applications. We offer solutions for both convection and conduction cooled environments based on common hardware standards, plus we specialize in high performance connectivity products for ruggedized data and telecommunication solutions.

>> Systems

PARPRO serves some of the most demanding customers in the world with application-ready systems, and rugged chassis. In addition, PARPRO adds expertise in project management, hardware & software design, documentation, and system test.

MANUFACTURING EXPERTISE

>> Cable & Wire Harness Assembly

PARPRO is a leading manufacturer of aerospace & defense cable assemblies and harnesses, as well as tactical cable, and MIL-SPEC connectors. Our cable assemblies are rugged, dependable, and of high signal integrity. They also meet MIL-STD requirements for extreme environmental situations.

>> Sheet Metal and Machining

PARPRO has over 20 years technical manufacturing experience of innovative precision sheet metal parts and assemblies. From CNC punch/laser to brake/bend to hardware insertion, to weld/grind to powder coating and lamination, PARPRO offers a full range of premium sheet metal fabrication services and metal working capabilities.

>> Electronics Manufacturing Services (EMS)

PARPRO is a full-service electronic contract manufacturer, and boasts a full resource of experienced manufacturing engineers and technologists. With North American headquarters in California, we have PCBA manufacturing facilities in both the USA and Asia making our manufacturing offering competitive at virtually any volume and with any sourcing strategy.

PARPRO for Aerospace and Defense is a uniquely integrated ODM company that offers advanced design, engineering, manufacturing and testing that meets the exacting demands of A&D's stringent requirements.

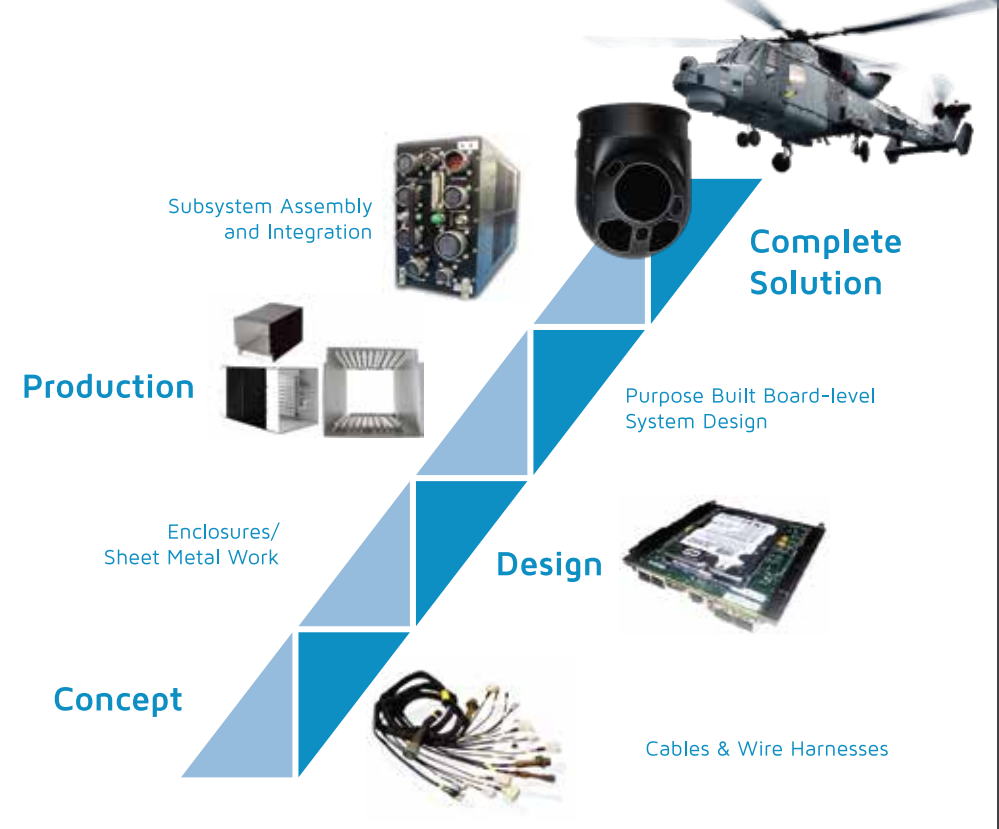
With over 20 years serving the aerospace and defense industry, PARPRO's focus and commitment is structured to support the intricacies specific to the A&D industry. PARPRO is a full-service design and manufacturing company, providing OEM customers with the highest quality technology products and services. As an expert developer

and manufacturer of embedded hardware, system builds, rugged enclosures, cable and wire harness assemblies, along with complex real-time systems for high performance applications that meet MIL-STD requirements, PARPRO is a key partner able to service a wide range of applications and projects.

COMPLETE SOLUTION

>> Design, Development, Production

PARPRO provides a single point of contact for rugged systems and integrated solutions for embedded military and aerospace applications. Whether your project requires a simple, straightforward box build or a more complex final assembly with agency certifications, we can accommodate. We engage with the customer from concept to production ensuring system survival and endurance during deployment.



>> CERTIFICATIONS/STANDARDS

- ▶ ISO 9001:2008
- ▶ AS9100:2009
- ▶ ITAR Compliant
- ▶ NADCAP - Chemical Processing, Electronics, Welding
- ▶ UL Certified
- ▶ IPC Standards
- ▶ FAA Repair Station

>> KEY CAPABILITIES

- ▶ Cable & Wire Harness Assembly
- ▶ Electro-Mechanical - Sub and Full Assembly
- ▶ System/Box Build
- ▶ Sheet Metal and Precision Machining
- ▶ SMT, Through-Hole, Flex and Mixed Circuit Card Assembly
- ▶ Conformal Coating
- ▶ Turnkey Manufacturing

>> DESIGN & ENGINEERING

- ▶ DFM & DFX
- ▶ PCB Design

>> ABOUT PARPRO



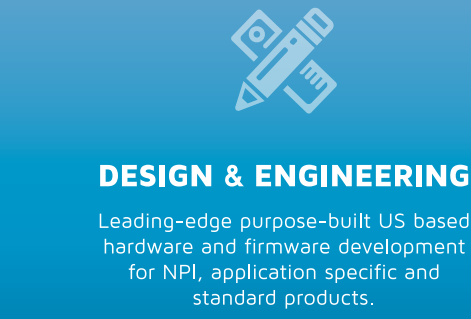
In business since 1991 with over 700 employees worldwide. Publicly listed on the Taiwan Stock Exchange since 2014 (4916:TW).



Aerospace & Defense | Datacenter | Gaming | Industrial | Medical | Telecom | Transportation | Embedded Solutions & Platforms



One company through design, development and production, providing a faster more flexible, high quality solution resulting in cost optimization and margin stack reduction.



Leading-edge purpose-built US based hardware and firmware development for NPI, application specific and standard products.



State-of-the-art manufacturing solutions (EMS), specializing in production at all volume levels - either onshore, offshore or nearshore.



Low cost country or regional supply chain with North America based engineering and global integration, production, distribution, and fulfillment.

RAPID & COST EFFECTIVE SOLUTIONS TAILORED TO SUIT YOUR REQUIREMENTS

THE EXPERTISE OF **ALL OR ONE**

» Early Stage Product Design & Engineering

- Product Development & Engineering (NPI)
- System Design
- Thermal Modeling
- Boards, Modules & Enclosures
- Circuit & Routing
- BIOS, OS and Drivers Support, Firmware Customization
- Design for Manufacturability (DFMA)
- Test Development and Design for Test
- Component Risk Mitigation & Obsolescence
- Value Analysis / Value Engineering
- Program Management / Product Life Cycle

» Contract Manufacturing Services (EMS)

- Full Turn-Key and Labor Only Manufacturing
- Subsystem Assembly & Integration
- Printed Circuit Board Assembly (PCBA)
- Lean Manufacturing Principles
- Cable & Wire Harness Assembly
- Sheet Metal & Precision Machining
- Powder Coating & Lamination
- Testing & Screening, Failure Analysis
- Local / Regional / Asian Supply Chain Management
- Low to High Production - Volume Scalability

» Aftermarket Solutions & End of Life Support (EOL)

- Warranty, Repair & Logistics Support
- Direct Fulfillment
- End-of-Life Material Management



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Design & Engineering
Embedded Hardware / Systems



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SMT / Metal Works /
EMS / Integration



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Wire Harnesses / Metal Works /
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