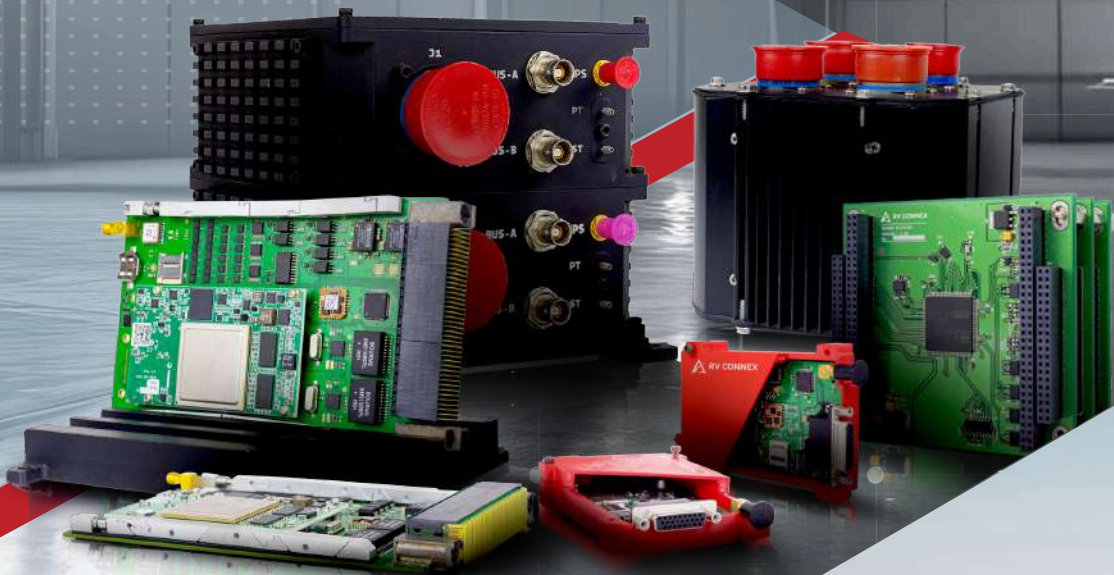# AUTOPILOT
SYSTEM

Autonomous Solutions Tailored for a Wide Range of Unmanned Systems

RV Connex excels in crafting in-house autopilot systems for Unmanned Surface Vehicles (USV), Unmanned Ground Vehicles (UGV), and Unmanned Aerial Vehicles (UAV) covering land, air and sea applications. Our autopilot system goes beyond technology – it's a robust solution thriving in rugged UAV environments, rooted in technical heritage. Tailored for civil or military platforms, each system is uniquely developed to meet your specific needs, ensuring unparalleled functionality.

STANDARDS

- AS9100D
- MIL-STD-810
- MIL-STD-461
- DO160 (Environment, EMC, Electrical)

KEY FEATURES

- **Multi-Platform:** Adaptable to FW/RW, USV, UGV and UAV systems for complete air, land, and sea coverage
- **Autonomous Flexibility:** Autonomy during dynamic operations in various domains
- **Real-time Precision:** Reliable execution of critical applications in air, land, and sea environments
- **Seamless Operations:** Automatic take-off/landing for streamlined missions and enhanced safety
- **Full Redundancy:** Uninterrupted operation during unforeseen challenges across air, land and sea missions
- **Integrated Mission Management:** Enhanced planning and execution in diverse operational domains
Warfare & Surveillance Support: Robust capabilities for situational awareness and threat detection in air, land, and sea environments

LARGE SCALE

SYSTEM DESIGN

- Redundant and full authority
- Rugged design for safety and critical real time application

SYSTEM PROCESSOR

- FPGA with High Performance Application Processor and Real Time Application Processor

I/O

- Ethernet
- CAN
- Analog Inputs
- Discrete Inputs/Outputs
- Serial I/O (RS422/485/232)
- ARINC 429 Inputs/Outputs
- MIL-STD 1553 (Option)

DIMENSIONS

- 250 x 170 x 100 mm (L*W*H)

WEIGHT

- 2,500 g.

POWER

- 9 to 28 VDC, 15W max

MEDIUM SCALE

SYSTEM DESIGN

- Stackable single board computers
- Modular design to tailor for specific requirements

SYSTEM PROCESSOR

- Multiple High Performance Application Processors

I/O

- Ethernet
- Analog Inputs
- Discrete Inputs/Outputs
- Serial I/O (RS-422/485/232)
- PWM Inputs/Outputs

DIMENSIONS

- 100 x 100 x 150 mm (L*W*H)

WEIGHT

- 1,800 g.

POWER

- 22 to 28 VDC, 12W max

SMALL SCALE

SYSTEM DESIGN

- Single board computer with flight sensors
- Compact design suitable for various autonomous systems

SYSTEM PROCESSOR

- High Performance Application Processors

I/O

- Ethernet
- Analog Inputs
- Discrete Inputs/Outputs
- Serial I/O (RS-422/485/232)
- PWM Inputs/Outputs

DIMENSIONS

- 120 x 65 x 35 mm (L*W*H)

WEIGHT

- 350 g.

POWER

- 9 to 28 VDC, 5W max

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