

IRT
Innovative Response Technologies, Inc.

Corvid

Autonomous Computing and Sensing System



You Configure, You Customize...
Your Mission.

Corvid is an embedded computing and sensing system designed to meet the emerging military and commercial needs of putting autonomy on small to medium sized air, ground, surface and underwater vehicles.

Its revolutionary OPEN ARCHITECTURE provides developers, integrators and field operators the ability to instantly configure and customize the system to meet their mission needs.



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UNMANNED | ROBOTICS | MISSION CRITICAL | EMBEDDED SYSTEMS
RESPONSE | LAW ENFORCEMENT | TACTICAL | MILITARY | SECURITY | EMERGENCY

Corvid

Autonomous Computing and Sensing System

Capabilities:

Dedicated Motherboard for User Defined Mission Management

- Royalty-Free, Open Source RTOS (Embedded LINUX)
- Speed: 600MHz
- Memory: 128MB RAM
- Flash: 32MB

Industry Standard External Sensor Payload Interfaces

- 1 Ethernet port
- 1 CANbus port
- 8 12-bit A/D ports
- Up to 3 RS-232 ports (2 lines can be TTL configured)
- Up to 22 GPIO
- Up to 8 servo PWM

Power Consumption

- 5.5V to 30V input, 4W max consumed

Wireless Communications

- Optional: Wi-Fi, 900 MHz, and/or Bluetooth

Onboard Data Recording

- Internal microSD slot

Sensors

- Digital 3 axis gyros (+/- 150 deg/s)
- Digital 3 axis accelerometers (2g or 6g max)
- Static and dynamic pressure sensors
- Off-board GPS via RS-232
- Off-board compass via RS-232
- Stand alone dedicated processor for sensor integration and signal processing

Specifications:

Physical & Performance Characteristics:

- Dimensions: 1.0" H X 2.3" W X 4.5" L
- Weight: ~250 grams



Sales & Media Contact:

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