RAVEN

GALAXIA

Unleash Unparalleled AI Performance in Orbit

Every Mission's Must Have

RAVEN is designed to meet the rigorous demands of both Low Earth Orbit (LEO) and Medium Earth Orbit (MEO) applications, as well as high-altitude commercial drones. With its exceptional speed and power efficiency, our computer handles complex computations effortlessly, enabling real-time AI capabilities at the edge.

RAVEN stands out with its wide range of standard hardware interfaces, ensuring seamless integration into various subsystems. Whether you're looking to enhance satellite functionality, revolutionize EO imaging, or build the next generation of autonomous satellite constellations, **RAVEN** provides the reliability and versatility needed for cutting-edge innovations.

- TRL-9
- Flight Heritage
- On-board GNSS (Optional)
- Canadian Entity Discount

Compute Specifications - Core Unit	
CPU	Dual-core NVIDIA Denver 2 64-bit CPU and quad-core ARM A57 Complex
GPU	NVIDIA Pascal™ Architecture GPU with 256 CUDA cores
AI Performance	1.33 TFLOPs
Memory	4GB 128-bit LPDDR4, 1600 MHz - 51.2 GBs
Embeded Storage	16GB eMMC 5.1 Flash Storage
SD Card Storage	1-4TB
I/O	UART, RS-422/485, SPI,I2C,GPIO,CAN*,Ethernet,USB

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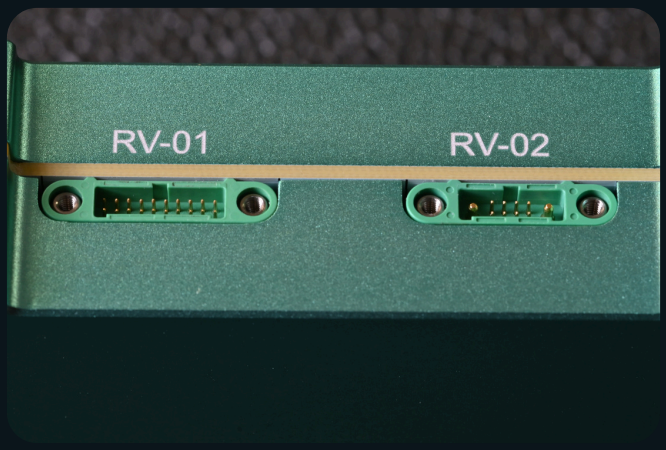

Environmental Specifications	
Operating Temp	-25°C ~90°C
Thermal Management	Passive thermal coupling to enclosure
Vibration	1*10-1 g1/Hz for 1 to 2000 Hz (random/sinusoidal)
Shock	140G, half sine 2 ms duration
Weight	120g - 188g

Power Specifications	
Supply Source	EPS and USB
Supply Voltage	5V
Power Profiles	5W and 15W modes
Memory	4GB 128-bit LPDDR4, 1600 MHz - 51.2 GBs
GNSS Supply	3.3 VDC ±5%

GNSS Specifications	
Signal Tracking	GPS L1 C/A, L1C, L2C, L2P, L5. GLONASS, Galileo, BeiDou.
Performance	~ Sub-meter Subsatellite (Code and Carrier)
Accuracy	Time ~5ns, Velocity ~ 0.02m/s RMS
Power	Max 3W
GPS Data output	Internal data logging + External UART Tx output

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