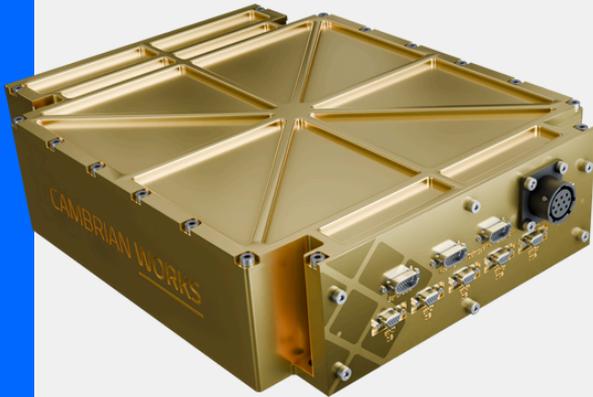


GigRouter

(Model GR-002007)



AI and Machine Learning Ready

GigRouter is built with an NVIDIA AGX Orin processor for state-of-the-art AI/ML computing coupled with K3S management. This allows apps to be deployed in parallel.

Networking Ready

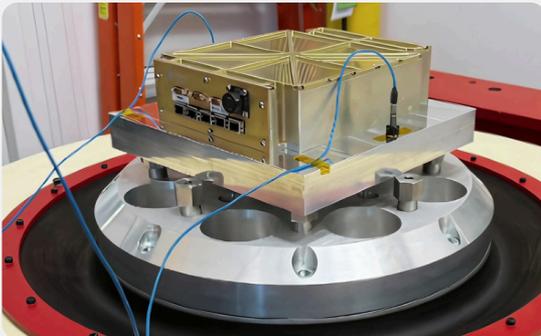
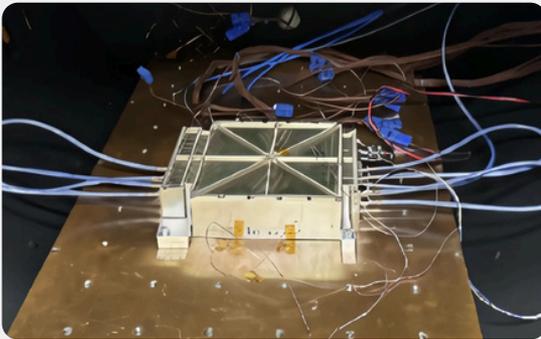
Network software packages for internal satellite routing and inter-satellite communications. Compatible with many protocols such as MPLS, IPv4, and IPv6. No need to rewrite software for data routing through space.

Space Ready

GigRouter has completed NASA GEVs vibration and thermal vacuum testing. GigRouter can operate GPU and CPU intensive loads in a high temperature vacuum environment.

Rapid Development

The multitude of standard interfaces, like 2x 10-GigE, 7x 1-GigE, and Serial, allows you to develop rapidly and focus on your mission and schedule.



Dimensions 267 x 200 x 61 mm	Mass (with enclosure) 3.23kg (Measured)	OS Ubuntu-based optimized BSP	Input Voltage Range 18V to 36V
Data Interfaces 2x 10-Gbps Ethernet 7x 1-Gbps Ethernet 1x RS-422 1x RS-422 (Debug) 4x GPIOs	Storage Flash Memory <ul style="list-style-type: none"> • 64GB eMMC • 2x 8TB SSD (16TB total) 	Power Consumption* 26 Watts (Idle) 38 Watts (Max Data) 40 Watts (Max CPU) 65 Watts (Max GPU) 94 Watts (Max) *Power Mode Adjustable	Container Orchestration Kubernetes (K3S)
CPU 12-core Arm Cortex-A78AE 64-bit	RAM 64GB 256-bit LPDDR5	Radiation Lifetime 24 Years in 550km 90° 8 Years in 1000km 90° 5 Years in GEO with added 2mm shielding	
GPU 2048-core NVIDIA Ampere architecture GPU with 64 Tensor Cores		Base plate temperature (in vacuum) < 60 °C to maintain CPU temperature < 75 °C at 35 W nominal power	



Seamless Space Links

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