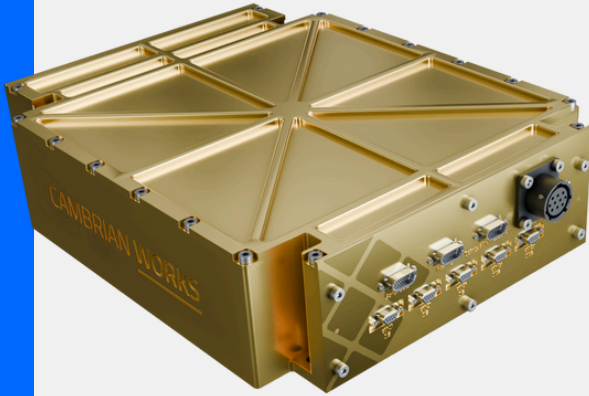


# GigRouter

(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

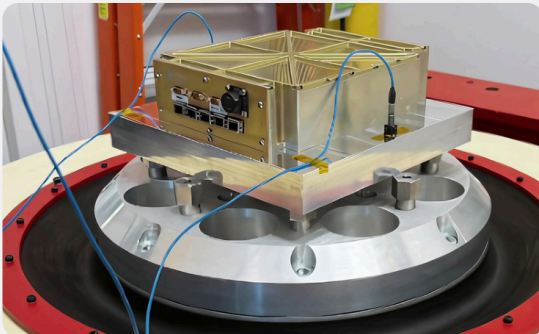
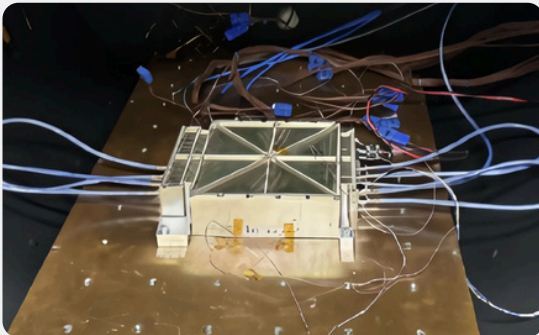
Network software packages for internal satellite routing and inter-satellite communications. Compatible with many protocols such as MPLS, IPv4, and IPv6. No need to rewrite software for data routing through space.

## 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.



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 CAMBRIAN WORKS

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



# Seamless Space Links

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