INFINITY AVIONICS

YOUR EYES IN SPACE

INFINITY
AVIONICS

Infinity Avionics is an Australian company which provides reliable and rugged optical sensor and processor solutions for the space industry and other high-reliability applications.

Our vision is to put our customers at the forefront of their missions through our reliable, robust and qualified technology solutions complemented by our know-how, specialised facilities, experience and expertise.

The team at Infinity Avionics is experienced in electronics design for space applications, project management, systems engineering, defence, and manufacturing, having contributed to the success of several Australian space missions.

Infinity Avionics provides space flight-proven and radiation-tested sensor and processor subsystems for space missions worldwide. Additionally, Infinity Avionics provides consulting services to design and deliver custom sensor payloads to meet customers' mission requirements in a timely manner.
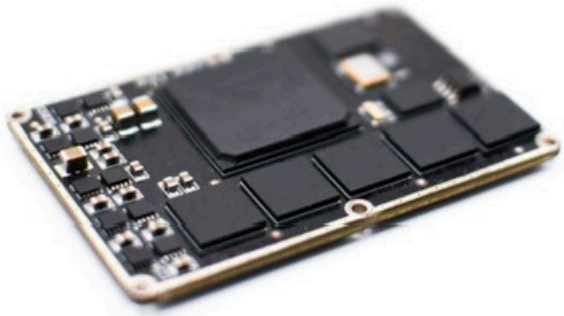
Onboard **20+** space missions

Designed **100+** electronics modules for space

5+ space qualification campaigns

Provided expertise to **20+** design studies

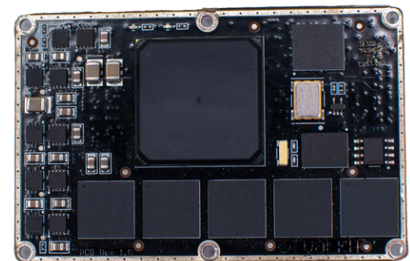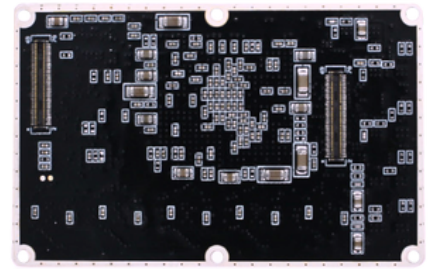**30+** years collective Aerospace experience

Volkh processor is a reconfigurable processing platform for space applications which can be used as a spacecraft onboard computer as well as a payload processor.

Technical specifications	
Processor	SmartFusion 2 Soc
Memory options	MRAM 8 MByte Flash 1 Gbit LPDDR 1 Gbit
Input voltage	5 V
Input power	750 mW to 1W (with DDR)
Processor clock options	20 MHz external 32 kHZ RTC Configurable Internal
Interfaces	UART, I2C, SPI, LVDS, CAN, USB ULPI, and custom
Operating temperature	-40 C to 85 C
Dimensions	70 mm x 45 mm x 6.2 mm
Weight	21 g
Flight heritage	Since 2020
Environmental qualification	NASA GEVS
Total Ionizing Dose	Up to 40 kRad
TRL	9

Unique FPGA based architecture enables reconfiguring communication interfaces and GPIOs based on system requirements.

FPGA SoC based processor comes in a small form factor making it a flexible option for a platform/payload processor. Volkh processor comes with a range of data storage options including SEU tolerant MRAM and low power DDR memory.

Infinity Avionics Pty Ltd
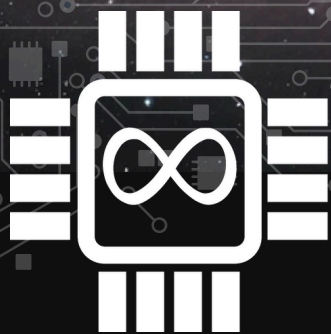**ABN | ACN**
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