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SGR-Axio - Space GPS Receiver

- Advanced next generation GNSS receiver
- Two active patch antennas included
- GPS L1 C/A and Glonass is currently supported, Galileo is planned
- Delivery : 12 months

Total Price:

$ (TBA)

Mouse over to zoom in

Export Classification: EAR

DESCRIPTION	SPECIFICATION	MORE DETAILS

The SGR-Axio is a new generation of space GNSS receiver that provides position, velocity and time to Low Earth Orbit spacecraft. It makes use of signals from GPS satellites, but can also support SBAS, Galileo, Glonass and Beidou constellations. In its baseline configuration, it supports 24 GPS L1 C/A code channels over dual antennas. As required, it can be expanded to incorporate extra tracking channels and supports up to four dual frequency antennas.

The SGR-Axio architecture inherits from Surrey's long experience with the design and use of spaceborne GPS receivers in orbit, and radiation mitigation is incorporated to increase robustness. The SGR-Axio uses a Flash-based FPGA for softcore processor and proprietary correlators. A second SRAM-based FPGA gives the configurability of a software-defined receiver even in orbit, but with the processing power of an ASIC.

Advanced option will include:
- Supports up to four antennas
- Multiple frequencies
- Galileo capability
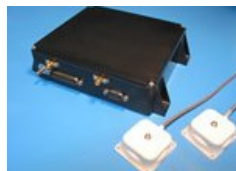- Timing module for hold-over capability
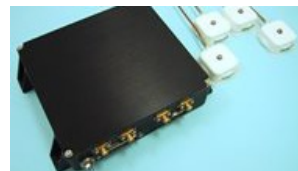
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Related Products

SGR-10 - Space GPS Receiver

SGR-20 - Space GPS Receiver

SGR-ReSI - GNSS Remote Sensing Instrument

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