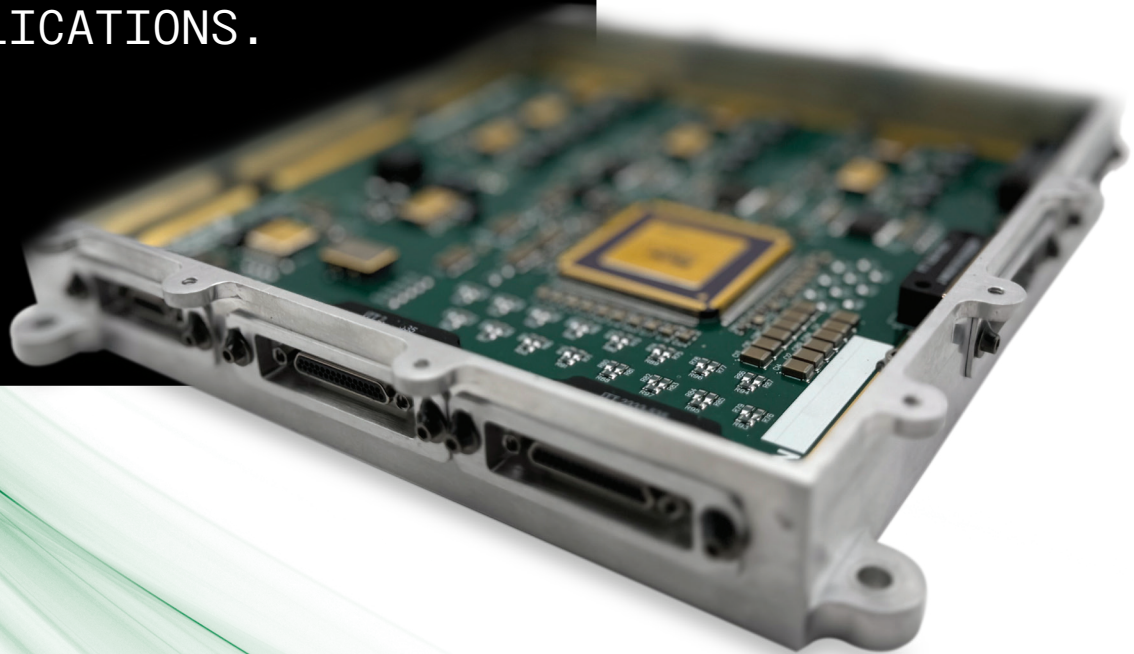


ORBIONICS

RAD-HARD
ELECTRONICS FOR
DEMANDING SPACE
APPLICATIONS.



ORBIONICS family of radiation hardened electronics is space qualified and available for command and control of sensors in satellites and other space applications. Custom solutions available.



FEATURES

- HiRel connectors
- Compliant with space quality standards
- Support for imagers and LiDARs
- Onboard processing for image enhancement and target tracking
- Support for edge computing and AI algorithms
- Field upgradable firmware

APPLICATIONS

- Satellite payloads
- Space robotics

VERSATILITY

- Available for UV, VIS, SWIR, MWIR and LWIR sensors
- Customizable to specific sensors

SPECIFICATIONS*

Sensor Support	Up to 8k x 8k
Data Lanes	1-16 lanes
Data Rate	Up to 3.3 Gbps/lane
Output Formats	10/20/40GigE, LVDS, CML
Output Interface	Copper, Fiber, SpaceWire
Command and Control	I2C, SPI, Ethernet, LVDS, SpaceWire
Processor	Rad-hard FPGA
Processing	NUC, BPR, Decimation, Tracking
Firmware	Field upgradable
Power	2-10W
Ambient Temp Range	-55C to 85C
External Trigger	TTL/CMOS, LVDS
Radiation Tolerance	100-1000 Krad (Si) TID 70-125 MeV-cm ² /mg SEL
Compatibility	Standard Space Bus configurations

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*SAAZ reserves the right to change the specification without prior notice.
For updated specifications contact us.

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making it v's'ble