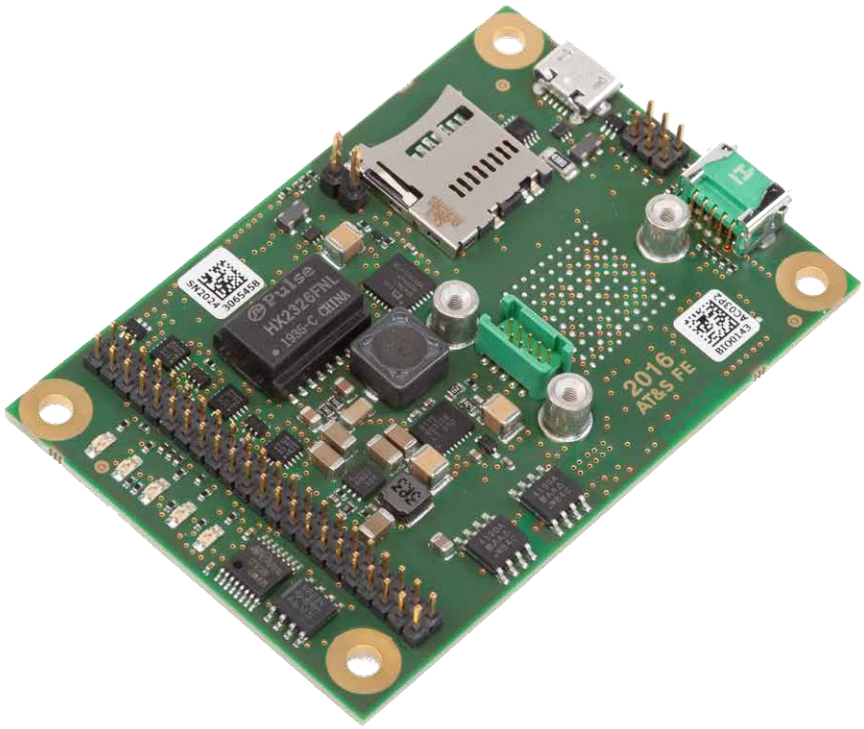
Robotics Interface Board

Rapid prototyping and integration with multi-frequency GNSS receivers

septentrio



UAV

Precision Agriculture

Robotics

Autonomous

The Robotics Interface Board is an optional board that coupled with Septentrio GNSS receiver boards provides common interfaces like USB, ethernet, on board logging and other functionalities designed for rapid prototyping, product evaluation or efficient integration.

KEY FEATURES

- **Resilient to vibrations and shocks**
- **44 pins I/O connector for autopilots such as Pixhawk**
- **On-board logging**
- **Micro USB connector**

Reduce time to market

For faster time to market use the Robotic Interface Board directly for production, saving time and costs needed for GNSS OEM receiver integration. On top of that you will already have access to pre-integrated on-board logging on micro-SD card, external interfaces such as micro-USB as well as the SAMTEC TMM-122-03-S-S-MW connector together with a commonly used 44 pins I/O connector.

Ideal for testing

During the development phase you may need to test multiple prototypes and hardware configurations. Thanks to the on-board logging the Robotics Interface Board allows you to easily move the GNSS receiver from machine to machine. You can then quickly access the logging data via USB for further analysis.

Robotics Interface Board

FEATURES

Interfaces

Wide range power supply input
On-board logging on micro-SD card (max 32 GB)
Plug compatible with Pixhawk and ArduPilot
1 PPS output
Ethernet
2 Event markers for camera shutter synchronisation
Ready to integrate push-button start/stop logging on the SD-card

Connectivity

It removes the 30 pin connector and the 60 pin connector of the GNSS (INS) board
1 Hi-speed serial port (LV TTL)
1 Hi-speed RS232 port
44 PIN connector I/O, SAMTEC TMM-122-03-S-S-MW
1 Full-speed micro USB device port

PHYSICAL AND ENVIRONMENTAL

SWaP

Size	71.5 x 47.5 x 14.4 mm 2.81 x 1.87 x 0.56 in
Weight	23 g / 0.81 oz
Input voltage	5 VDC or 4.5–30 VDC

Power consumption

On top of the GNSS (INS) board	700 mW
Onboard logging	100 mW

Environment

Operating temperature	-40° C to +85° C -40° F to +185° F
Storage temperature	-40° C to +85° C -40° F to +185° F
Humidity	5% to 95% (non-condensing)
Vibration	MIL-STD-810G
Certification	RoHS, WEEE

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