Port.8 Logger

Interface and Data Logging Module

Our multifunctional interface and data logging module features 8 serial ports (2 x RS232/422/485 and 6 x RS232) and SDHC/SDXC based data logging functionality with now up to 128GB storage capacity.

Each high speed serial port operates with baudrates up to 230kBaud supported by a 64 byte hardware FIFO. Two ports are individually configurable to RS232/422 and again six ports are RS232 with hardware handshake.

A continuously adjustable DC/DC converter provides supply voltages in the range of 5V to 12V to any of the serial ports (routing is software programmable). Supply voltage switching can be triggered by the internal scheduler, external devices or command interface. Maximum current for supply voltage is 4A.

The 24-bit analog-to-digital converter that is available on an add-on board allows sampling of up to eight analog input channels (single-ended; four in differential mode) with software selectable data rates. It has interface opportunities as well as a temperature sensor, compass and accelerometer.

The Port.8 modules primary applications include data logging and data routing in buoy based and ocean bottom sensor systems either standalone or in combination with any of our telemetry systems. Due to the low power consumption, Port.8 is ideal to be used for long-term deployments.

The Port.8 module seamlessly integrates with all our other communication system building blocks such as acoustic modems, VHF/UHF/Iridium communication solutions and auxiliary systems such as our navigation lights, power management modules etc.

In order to minimize data traffic over energy consuming and/or expensive communication links, the system provides extensive data filtering possibilities.

The firmware also contains drivers to control many of the most common oceanographic instruments (including AADI, Seabird, RDI sensors).

Product Specification

Standard Interfaces

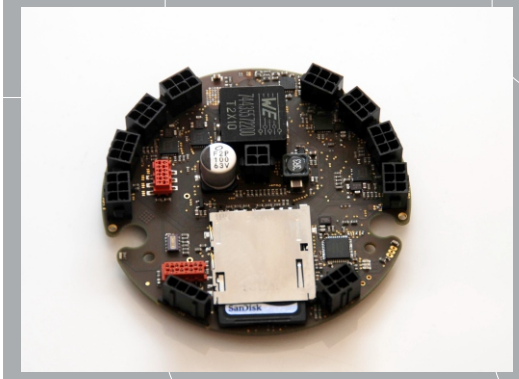
- 8 x high speed 64 byte FIFO serial ports with up to 230kbps
- 2 x RS232/422/485 software configurable serial ports
- 6 x RS232 only serial ports
- Continuously adjustable DC/DC converter for sensor supply, supply voltage range of 5V to 12V with maximum current of 4A, routable to any of the serial port connectors
- Optional Ethernet
- Optional USB
- External SPI & I2C bus available on connector

Sensor Interfaces *

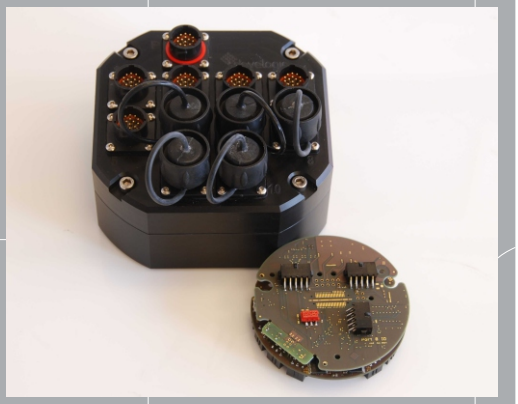
- 24-bit analog-to digital converter with selectable data rates - 8 analog input channels (single-ended) or 4 in differential mode
- 8 digital control pins
- 4 non isolated, protected switched outputs with common supply, max. 36V, 6A
- 4 optically isolated switched outputs, max. 500mA, 60V
- Temperature sensor
- Compass
- Accelerometer
- CAN 2.0 interface for custom applications

* Additional functionality (add-on)

Interface and Data Logging Module



Port.8 data logger with SDHC/SDXC card slot



Port.8 data logger including daugher board with analog and digital interfaces, data logger housing in the back

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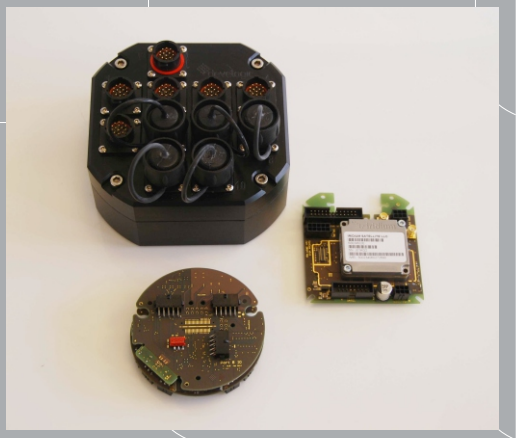

Port.8 data logger with analog and digital interfaces add-on board, telemetry and GPS daughter board and data logger housing in the back

Telemetry Interface *

- Trimble GPS
- IRIDIUM transponder
- Satel radio

Storage

- SDHC/SDXC card slot, currently supporting up to 64GB capacity cards with FAT32 file system

Time Base

- Standard 25ppm crystal oscillator time base for low power consumption
- Battery backed real time clock

Power Supply

- 8V to 48V supply voltage

Dimensions

- Diameter 86mm (electronics only)

* Additional functionality (add-on)

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07/2014