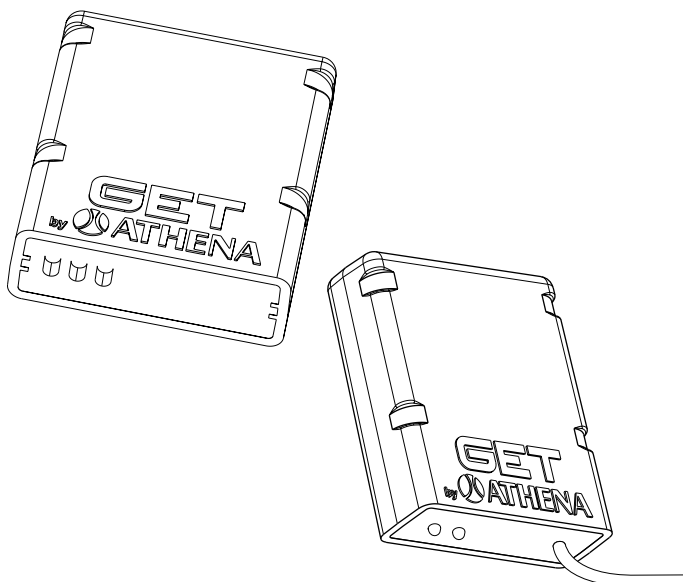# S2A
SIGNAL TO CAN CONVERTER

S2A is a special device, designed to convert analog and frequency signals to digital data.

It can be installed with SL1 to expand datalogger inputs

One or more devices can be connected to the same bus. This requires a different output ID configuration, to avoid bus collision.

/ TECHNICAL FEATURES

ELECTRICAL CHARACTERISTIC

Main Power Supply	9-18V, typ. 12V
Output Voltage	5V at 70mA max
Current Consumption	typ. 100mA@12V (no sensor connected)

MECHANICAL CHARACTERISTIC

Dimensions	18.5mm x 53mm x 62.25mm (without harness)
Weight	Approximately 130g
Housing materials	PA6-GF30 (30% Glass Reinforced, Heat Stabilized, Flame Retardant)
International Protection Code	IP67

TEMPERATURE RANGE

Operating Temperature	-20°C / +70°C

IO PERIPHERALS

Analog Inputs channels	6x single-ended (SAR) - resolution: 12bit (AN1-AN2-AN3-AN4-AN5-AN7)
	2x single-ended (SAR) - resolution: 10bit (AN6-AN8)
	voltage range: 0V-5V
Digital Inputs channels	4x frequency (max. input frequency 20KHz)
System monitoring	2x device status LEDs

COMMUNICATIONS PORTS

CAN	1x CAN 2.0A/B (up to 1 Mbits/s) – bus termination by connector cap
Serial	1x RS232 (only for configuration)

STANDARD HARNESS AND CONNECTORS

Main cable (MAIN)	8 poles JST connector (08T-JWPF-VSLE-D)
Communication cable (CAN)	8 poles JST connector (08T-JWPF-VSLE-D)
Input cable analog AN1-4	4 x 3 poles Binder (09-9748-70-03)
Input cable analog AN5-8 (EXP-1)	6 poles JST connector (06R-JWPF-VSLE-D)
Input cable analog IC1-4 (EXP-2)	6 poles JST connector (06R-JWPF-VSLE-D)

SOFTWARE HIGHLIGHTS

Maya	GET ECU management software (SO Windows™ 7 32-64 bit or higher)
Channel Real Time Monitor	Yes (by Maya software)
ID management	Yes (by Maya software)

OTHER FEATURES

TX CAN messages	broadcast
TX CAN messages data rate	up to 200Hz
TX CAN IDs messages	3x configurable message ID