

HIGH SPEED DATA LOGGER

HSL-500



The HSL-500 is a compact, self-contained data logger for applications in top level motorsport. It includes many innovative features including advanced hardware acceleration of front-end signal processing functions including filtering and down-sampling.

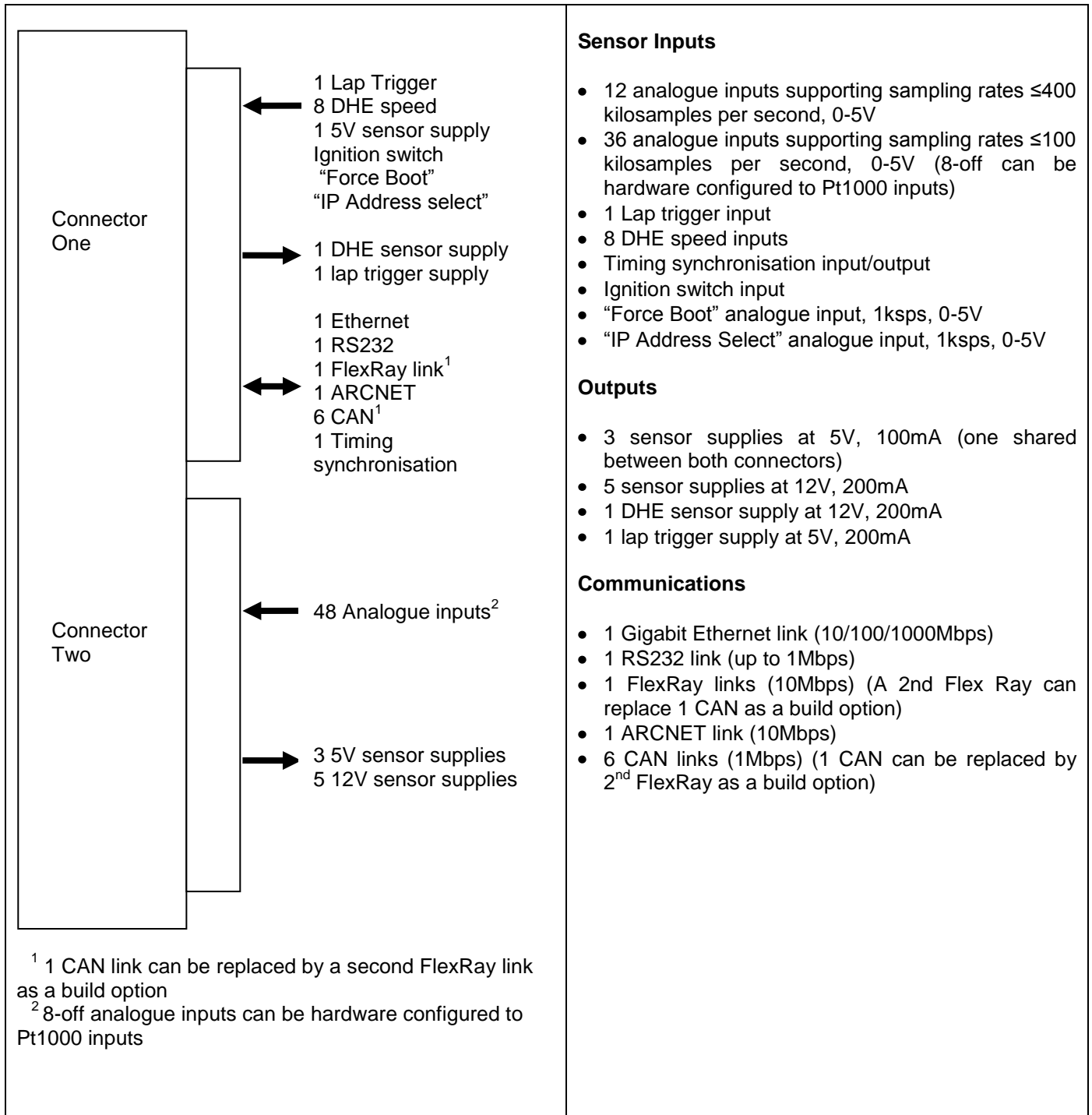
The unit can acquire data from on-board interfaces at rates of up to 400 kilosamples per second, and from remote units via communications links. A high-performance on-board PowerPC microprocessor offering over 1000MIPS processing power hosts customer applications for real-time data analysis. Application code may be autocode using our Graphical Development Environment (GDE) from Matlab/Simulink control modules. Data is logged to 2GB of on-board Flash memory and downloaded for analysis via a Gigabit Ethernet network connection.

For example system configurations please refer to our Units and Datalogging application notes.

<p>Electrical</p> <ul style="list-style-type: none"> • Supply voltage 8V to 16V DC with reverse polarity and transient over-voltage protection • 2GB Flash memory for logging • Hardware acceleration of front-end signal processing functions including filtering and down-sampling • Customer application processing power >1000MIPS <p>Electro Magnetic Compatibility</p> <ul style="list-style-type: none"> • Complies with the essential protection requirements of 89/336/EEC <p>Other features</p> <ul style="list-style-type: none"> • ATLAS<i>Lite</i> and System Monitor configuration software licences supplied with each unit 	<p>Application</p> <ul style="list-style-type: none"> • General purpose data logging • Real time telemetry transmission via ARCNET connection to MESL telemetry system <p>Connection Definition</p> <ul style="list-style-type: none"> • 2 64-way Deutsch AS Double Density connectors <p>Mechanical</p> <ul style="list-style-type: none"> • Case material aluminium alloy, hard-anodised black • Weight 625g <p>Environmental</p> <ul style="list-style-type: none"> • Splash resistant to standard motorsport fluids • Lids sealed with O rings • Maximum humidity 100% • Minimum operating temperature 0°C • Maximum operating temperature 70°C • Storage Temperature -10°C to 85°C • Vibration isolation is recommended
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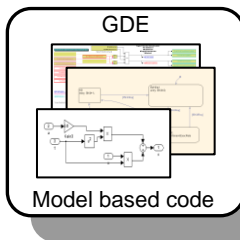


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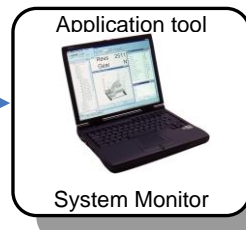
HSL-500

HSL-500 development system

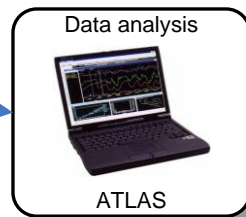
Model based development environment for control strategies and processing algorithms compiled for embedded target



- 12x 400kHz 12bit analogue 0-5V
- 36x 100kHz 12bit analogue 0-5V
- 8x DHE inputs
- 1x Lap trigger I/P
- 1Gbit ethernet
- 6x CAN interfaces
- 1x ARCNET link to telemetry transmitter
- 2Gbyte Onboard logging memory and data acquisition system

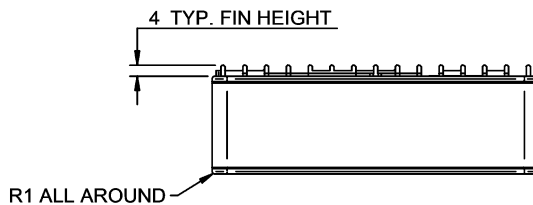
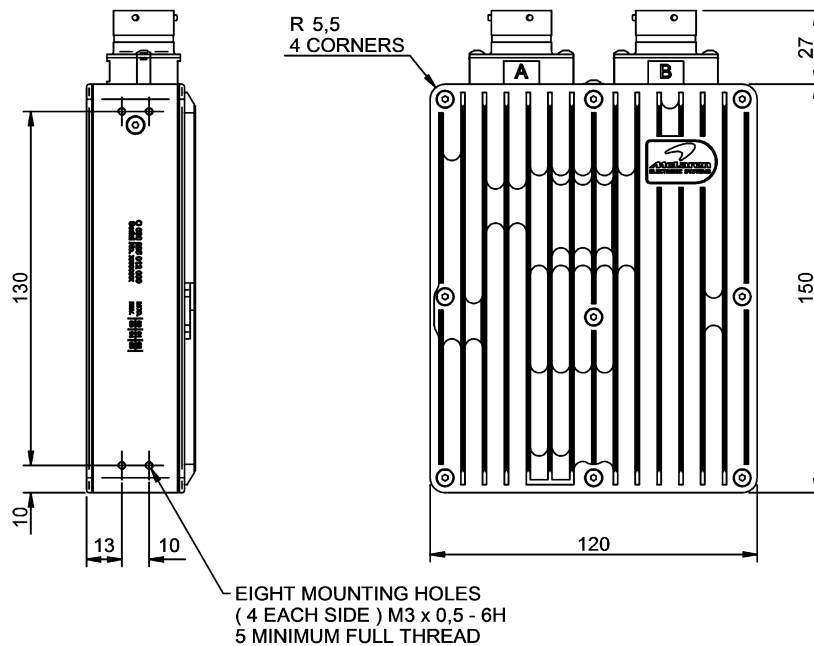
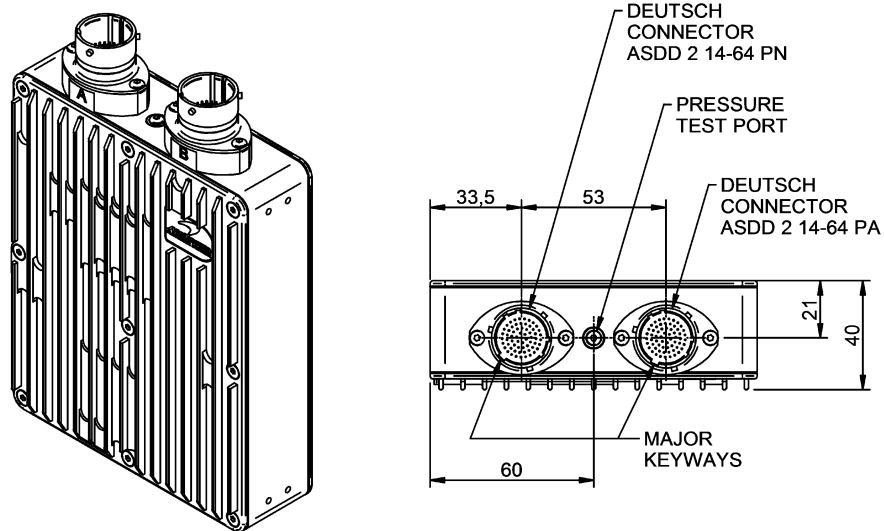


- Program version management
- ECU reprogramming
- Data tuning
- Live parameter display
- ActiveX interface
- CAN configuration
- Data Acquisition configuration



- Live data display via ethernet or wireless
- Upload of logged data
- Waveform, scatter, bar chart, histogram, FFT display types
- MATLAB export
- Numeric functions
- ActiveX interface

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Description	Order Code
HSL-500 High Speed Logger (2GB memory, 6 CAN and 1 Flexray)	O 030 095 012 000

07/06/10