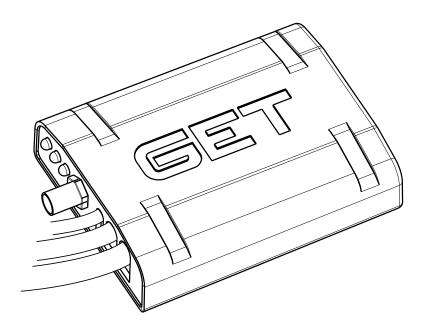


SL1DATA ACQUISITION SYSTEM



SL1 is the brand new GET Data Acquisition System, designed to expand standard data loggers' connectivity and to increase position accuracy, thanks to a built-in GPS and Sensor Fusion Technology.

CAN-BUS communication enables data flow from ECU and/or sensors with only two wires, while BLE allows wireless logging of biometric sensors such as Heart Rate.

Thanks to the WiFi connection, device configurations and data download can be done fast and easily.

It is robust, lightweight, and compact. The case is IP67 protection grade for the toughest riding conditions.

KEY FEATURES

2 CAN-BUS 2.0

Built-in GPS and WiFi modules

Expandable IC and AN input

Water and dust resistant





/ HARDWARE FEATURES

ELECTRICAL CHARACTERISTIC

Main Power Supply	9-18V, typ. 12V
Auxiliary Power Supply	5V, mini USB port
	5V at 70mA max
Output Voltage	
Battery	3,7V Rechargeable LiOn
Current Consumption	typ. 120mA@12V

MECHANICAL CHARACTERISTIC

Dimensions	21mm x 62mm x 79mm (without harness and GPS connector)
Weight	Approximately 170g
Housing materials	PA6-GF30 (30% Glass Reinforced, Heat Stabilized, Flame Retardant)
International Protection Code	IP67

TEMPERATURE RANGE

Operating Temperature	-10°C / +60°C	
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DATA LOGGING & BUILT-IN PERIPHERALS

Memory	8GB
Logging capacity	35kB/s
Analog Inputs channels	3x single-ended
	voltage range: 0V-5V
	resolution: 12bit (SAR)
Digital Inputs channels	1x (max. input frequency 20KHz)
	1x logic state input (beacon mode)*
Output channels	1x low side power switch (3A max)
GNSS	GPS, Galileo, GLONASS, BeiDou
	Sensitivity: 167dB
	Update rate: 10Hz with external active antenna
IMU	9-axis Bosch BNO055
RTC	Real Time clock
System monitoring	3x device status LEDs

 $[\]ensuremath{^*}\text{not}$ implemented yet or not manageable by end user.





COMMUNICATIONS PORTS

CAN	2x CAN 2.0A/B (up to 1 Mbits/s) without termination
Serial	1x RS232*
	1x K-line*
WiFi	1x IEEE802.11b/g/n
Bluetooth	1x v4.0 Dual Mode Module*
USB2.0	1x Mini type connector

STANDARD HARNESS AND CONNECTORS

Main cable (MAIN)	9 poles HRS connector (DF62W-9EP-2.2C)
Expansion cable (EXP)	8 poles JST connector (08T-JWPF-VSLE-D)
USB cable	Sealed Mini USB connector
GPS antenna	SMA type connector

 $[\]ensuremath{^*}\text{not}$ implemented yet or not manageable by end user.





OTHER FEATURES

Logged data conversion format Supported CAN Protocols	WinTAX
	BLF*
	CSV*
	MDF*
	MDF4*
	Vector ASCII*
	Broadcast
	UDS*
	XCP*
Supported CAN configuration file	.dbc file (import only)
	Broadcast/imported CAN channels
User configurable channels	Analog channels
	Digital channels
Built-in channels	Digital Out channel
	GNSS channels
	IMU channels
	BLE Heart Rate channel*
WiFi mode	Access Point or Client mode

 $[\]ensuremath{^*}\text{not}$ implemented yet or not manageable by end user.





/ LIST OF SENSORS SUPPORTED

TEMPERATURE	POSITION
NTC sensors	Resistive linear sensors
K-Type sensors	Magnetostrictive linear sensors
IR-Sensors	Rotary sensors
PRESSURE	FREQUENCY/SPEED
Relative piezoresistive pressure sensors	Proximity sensors
FORCE	EXHAUST GAS
Strain sensors	Wide band Lambda system (sensor and conditioning module) for petrol engines
SIGNAL CON	NDITIONING
Inductive RPM sensor	
Pick-up frequency sensor	
K-Type thermocouple conditioning module	