i/o SCOUT SMART DATA LOGGER (SDL1.0)

The **i/o SCOUT SDL1.0** is a versatile and programmable datalogger built for real-time data acquisition and automation. With support for GSM and Wi-Fi, it enables remote monitoring and data collection, ideal for applications in agriculture, environmental monitoring, and industrial settings

KEY FEATURES

Controller Type	Programmable
Memory Storage	32GB internal, expandable with Micro SD
Wireless Communication	Wi-Fi (802.11 B/G/N) and GSM (LTE CAT-M1, NB-IoT)
I/O Interfaces	2x DI, 2x DO, 1x AI, 1x RS485 (Modbus RTU), 1x Micro USB, 1x Mini-PCIe (for GSM module)
Indicators	Power LED (Green), Network LED (Green)
Configurator Tool	i/o SCOUT Configurator Tool for setup and calibration
Mounting Options	Wall mount or DIN rail
Enclosure	Aluminum

TECHNICAL SPECIFICATIONS

Model	SDL1.0
Storage	32GB internal, Micro SD slot
SIM Slot	1x SIM (for GSM)
Real-Time Clock	Yes
Expansion Support	Yes
Wireless Communication	Wi-Fi (802.11 B/G/N), GSM (LTE CAT-M1, NB-IoT)
GPIO Interface	2x Digital Input (0-12V), 2x Digital Output (0-3.3V)
Analog Input	1x (0-10V, 16-bit resolution)
Serial Port	1x RS485 (Modbus RTU)
USB Port	1x Micro USB
Mini-PCIe Slot	Supports GSM module
Power Requirement	12-24V DC
Power Consumption	4-8.4W
Power Connector	2-Pin Terminal Block

MECHANICAL PROPERTIES

Dimensions	46 x 119 x 106 mm
Form Factor	Small size, aluminum enclosure
Mounting Options	Wall-mount, DIN rail
Weight	500g

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-10… +70° C (14…158 °F)
Ingress Protection	IP63

PERIPHERALS

Micro USB Port	1x Micro USB for configuration
SIM Slot	1x SIM slot for GSM connectivity
Mini-PCIe Slot	Slot for GSM module

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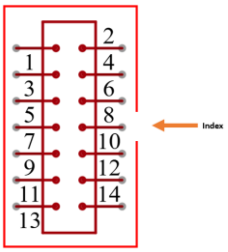
INPUTS & OUTPUTS

Digital Inputs (DI)	2 channels, 0-12V range
Digital Outputs (DO)	2 channels, 0-3.3V output
Analog Input (AI)	1 channel, 0-10V range, 16-bit resolution
RS485 Modbus RTU	1x RS485 serial port for Modbus communication

COMMUNICATION CHANNELS

Wi-Fi	802.11 B/G/N
GSM	LTE CAT-M1, NB-IoT
RS485 Modbus RTU	Serial communication for Modbus-compatible devices

EXPANSION PORT



Pin	Connection
1	RX
2	TX
3	SCL
4	SDA
5,6,7,8	NOT CONNECTED
9	5V
10	GND
11,12,13,14	NOT CONNECTED

FUNCTIONAL DESCRIPTION

Data Collection	Collects data through digital, analog inputs and RS485 Modbus RTU, processes it, and transmits data remotely via GSM or Wi-Fi.
Remote Monitoring	Enables real-time data access and visualization through cloud connectivity.
Local Configuration	Configurable through Micro USB and i/o SCOUT Configurator Tool for I/O calibration, network setup, etc.

APPLICATION NOTES

Power Supply	Connect a regulated 12-24V DC source; ensure polarity and secure connections.
Communication	Insert SIM card and connect antennas for Wi-Fi/GSM setup using the Configurator Tool.
Maintenance	Inspect wiring and connections periodically; update firmware as needed; clean device exterior with a dry cloth.
Warranty	One-year limited warranty covering defects in material or workmanship.
Customer Support	For assistance, contact: support@io-scout.com

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