

## EDL800: Energy Data Logger for EMS

### How energy efficiency is improved

With numerous communication options and an integrated firewall, SAUTER energy data loggers (EDL) are the ideal data capture devices. They allow all local measured data and meters to be recorded on site – reliably and economically – and independent of a building management system. The data is synchronised regularly with the EMS Server and the measurements can be protected for several days. This acts as a safeguard in the event that connection to the server is interrupted.



### Areas of use

SAUTER EDL offers the possibility of connecting systems to the EMS server and benefiting from all the advantages of the software SAUTER EMS without having to use a building management system. Available in the "Cloud Computing" version (hosting package) or in the local version without hosting (system solution), SAUTER EMS is a complete solution for energy data management. The SAUTER EDL collector has the most diverse range of drivers for integrating your system. The drivers for BACnet/IP, Modbus (IP-RTU), M-BUS and KNX IP are already included in the basic version.

### Keep your firmware always updated

SAUTER EDL includes a software package regularly updated to include new features and improve existing features. Security is also and mostly a SAUTER concern for its customers and software upgrade packages include security patches to keep the system as safe as possible. The yearly software maintenance option allows to be sure to always receive the last version of the EDL software. This option can be activated for any SAUTER EDL and at any time.

### Options for more adaptability and flexibility

SAUTER EDL comes with a hardware and software configuration that meets the majority of requirements. However, with the advent of digital technologies, the need for intercommunication is increasingly large and complex. To meet these needs, SAUTER offers you a range of additional drivers in the form of software options.

### Features

- No moving parts
- No fan
- Memory on flash card

### Technical description

- Power supply: 12 VDC 2-pin terminal block (**Note: The power supply is not included in the delivery.**)
- Maximum datapoints: 5000

### Products

Type	Description
EDL800F001	EDL800 EMS Energy Data Logger Hardware without Software
EDL800F002	(EDL) 10 EDL Datapoints from 1 to 100 DP
EDL800F003	(EDL) 100 EDL Datapoints from 101 to 1.000 DP
EDL800F004	(EDL) 1.000 EDL Datapoints from 1.001 to 10.000 DP

### Software Options

Type	Description
EDL140F001	(EDL) Driver Wurm/IP Refrigeration Systems *
EDL140F002	(EDL) Driver Danfoss Refrigeration Systems *
EDL140F003	(EDL) Driver Elreha Refrigeration Systems *
EDL140F004	(EDL) Driver SNMP (Simple Network Management Protocol) *
EDL140F005	(EDL) Driver SQL (Database Connection) *
EDL140F006	(EDL) Driver SAIA-S-Bus IP (UDP)*
EDL140F007	(EDL) Driver Siemens Simatic S5/S7*
EDL140F008	(EDL) Driver MQTT IoT*
EDL140F009	(EDL) Driver NodeRed*
EDL420F001	(EDL) Software maintenance per year from delivery
EDL420F004	(EDL) Software maintenance reinstatement per month since the delivery

\*Driver availability depending on EDL Firmware version (details on EDL driver datasheet)

## Technical features

### Power supply

Supply voltage	12 VDC
Power consumption	12V @ 1A

### Permissible ambient conditions

Operating temperature	-20 ~ 60°C
Humidity non-condensing	10% ~ 95%

### Interface, communication

Ethernet	2x 1000 Mbps (RJ45 Port)
COM	2x RS-232/422/485 (DB9)
USB	2x USB 3.2
Drivers included in the licence	BACnet IP Modbus (TCP & RTU) M-BUS KNX-IP
Display	1 x VGA (up to 1920 x 1080@60Hz)

### Installation

Type, holder	DIN Rail Mounting Kit
Dimensions L x H x W (mm)	137x102.8x36.2
Weight (kg)	0.67 kg / 1.03kg

### Certification

	CE, FCC
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### Architecture

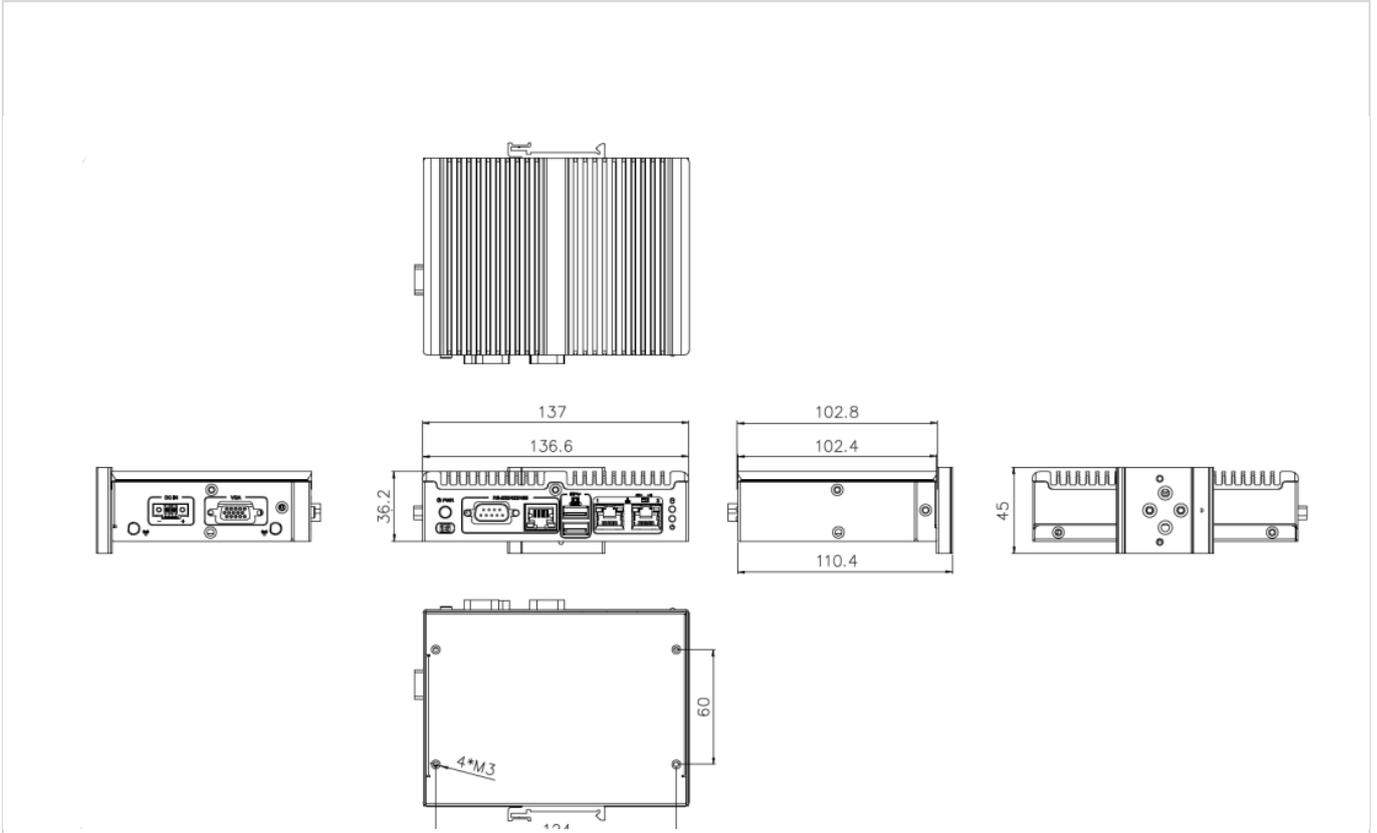
Processor	Intel Atom x5-E3930 dual-core 1.3 GHz
RAM	2GB SO-DIMM DDR3L 1600/1867
Storage	32GB mSATA (SSD)

## Comments on the project study

All drivers listed are included with the software and are activated via a license key. For all relevant data points alarms can be defined. Alarms can be kept in sync with EMS, so that acknowledgement is possible on EDL or EMS. There is also the possibility to define time schedules. In addition, the EDL establishes a VPN connection in order to meet the necessary security requirements for transmission of data over the Internet from remote locations.

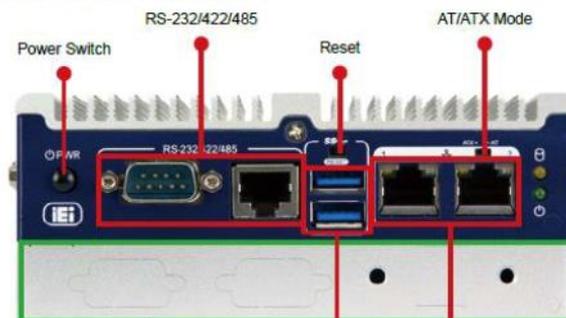
EDL configuration can be done via the full HTML5 web server embedded allowing to configure, visualize data and monitoring the system from any device (computer, smartphone or tablet). Integration with the EMS server is completely prepared. An EMS administrator is able to manage local users on EDL, upgrade the EDL firmware remotely and backup all EDL, that are linked to the project, automatically.

Dimension drawing (in mm)



Connection diagram

Front view of EDL800



Rear view of EDL800

