EDL 1200: Energy Data Logger for EMS

How energy efficiency is improved

With numerous communication options and an integrated firewall, SAUTER energy data loggers (EDL's) 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 (BMS). 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 (BMS). 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 include 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 package 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 for the EDL Software. This option can be activated for any EDL and at any time.

Features

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

Technical description

- Power supply: 24 V=, max. typ. 2.4 W by terminal block fitted with Phoenix screw terminals
  (Note: The power supply is not included in the delivery.)

Products

Type	Description
EDL1200F001	EDL 1200 EMS Energy Data Logger without Software
EDL1200F002	(EDL) 10 EDL Datapoints from 1 to 100 DP
EDL1200F003	(EDL) 100 EDL Datapoints from 101 to 1.000 DP
EDL1200F004	(EDL) 1.000 EDL Datapoints from 1.001 to 10.000 DP

Hardware Options

Type	Description
EDL1200F010	EDL 1200 GB LAN Module (1 x RJ-45-connector)
EDL1200F011	EDL 1200 WLAN Module (802,11 a/b/g/n)
EDL1200F012	EDL 1200 RS-232 Module (2 x DB9 connector)
EDL1200F013	EDL 1200 RS-422/485 Module (2 x DB9 connector)

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*
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	24 V= ±20%
Power consumption	28 W (Typical), 48 W max.

Interface, communication

Ethernet	4 x Gb Base-T
COM	2 × RS-232
	2 × RS-485
USB	3 × USB 2.0, 1x USB 3.0 compliant
Drivers included in the licence	BACnet/IP Modbus (TCP & RTU) M-BUS KNX-IP
Various	Chassis Grounding Protection
Display	1 x VGA, 1 HDMI v1.3

System Hardware

Processor	Intel AtomTM J1900 Processor SoC integrated
Memory	On-board 4 GB DDR3L 1600 MHz

Permissible ambient conditions

Operating temperature	0…60°C
Humidity non-condensing	10…95% RH at 40 °C

Fitting

Type, holder	DIN Rail Mounting Kit
Dimensions L x H x W (mm)	252 x 149 x 62
Weight (kg)	1.6
Certification	CE, FCC, UL, CCC, BSMI

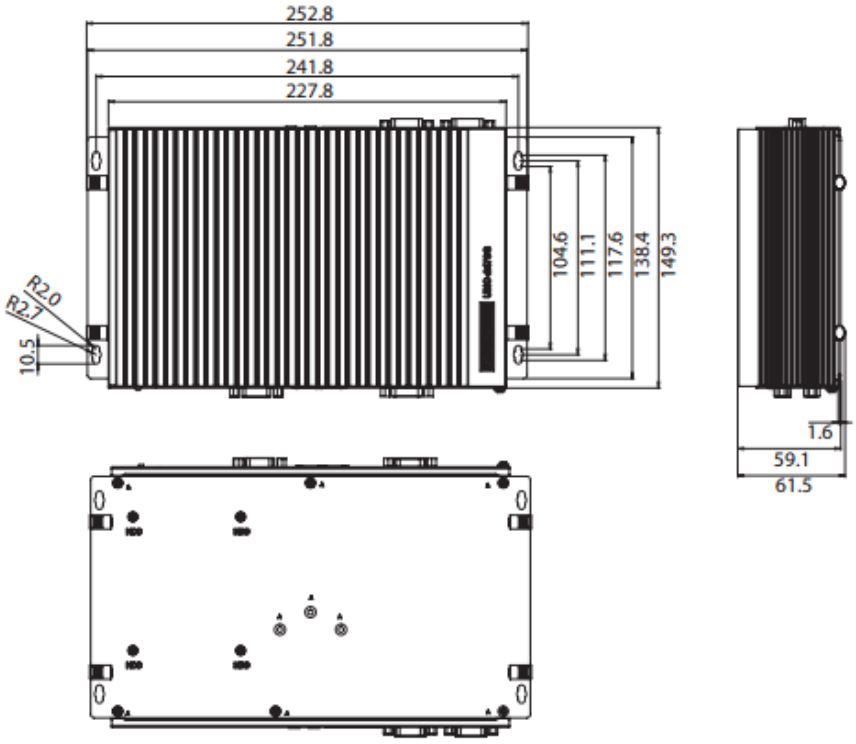
Ingress Protection	IP40

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 acknowledge is possible on EDL or EMS. There is also the possibility to define time schedules. In addition, the EDL establish a VPN connection in order to meet the necessary security requirements for transmission of data over the Internet from remote locations.

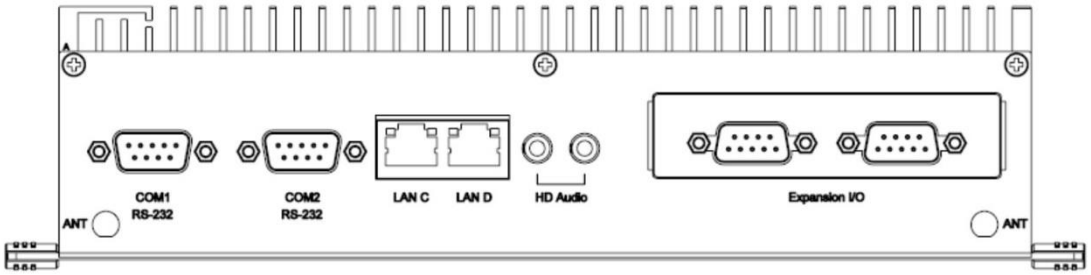
The configuration of an EDL is done via a development studio and will then be transmitted to the EDL. The EDL contains a full HTML5 Web Server allowing to configure, visualize data and monitoring the system from any device (Computer, smartphone or tablet).
Integration with the EMS server is completely prepared. An EMS administrator is being able to manage local users on EDL, upgrade remotely the EDL firmware and backup all EDL linked to the project automatically.

Dimension drawing

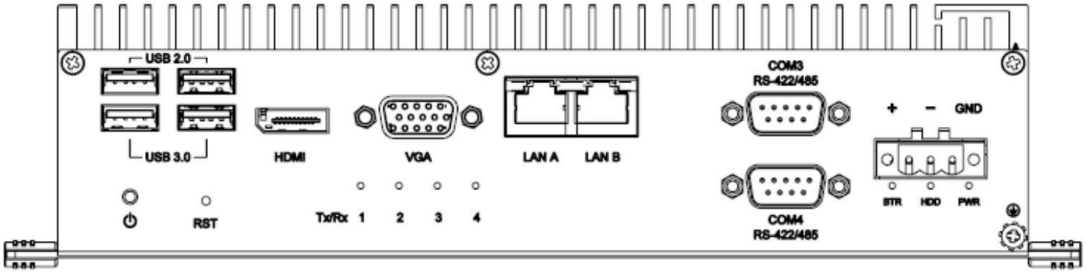


Connection diagram

Front view of EDL1200



Rear view of EDL1200



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Printed in Switzerland