

EasySoft - 电源和电子负载用软件

EasySoft - Software for Power Supplies and Electronic Loads



The image displays the EasySoft software interface on the left, which includes a top menu bar, a main control panel with fields for Voltage (Actual: 9.99 V, Preset: 10.00 V), Current (Actual: 0.000 A, Preset: 4.000 A), Power (Actual: 0.0 W, Preset: 71.50 W), and OVP (71.50 V). Below this is a 'GRAPH' section with a multi-axis plot showing Voltage [V], Current [A], and Power [W] over time. To the right of the screenshot is the 'EasySoft Control and Monitoring' logo. Below the logo are two physical hardware units: a rack-mountable power supply and a smaller electronic load unit, both with digital displays and control knobs.

...making it Easy for you

利用基于Windows操作系统的软件工具，可控制和监控电源与电子负载。这些工具操作简单，仅需几步设置。显示界面全为英文。它们仅能与下列产品系列和接口卡兼容。也可参考64页。

There is software for Windows OS available to control and monitor power supplies or electronic loads. The software are very easy to handle, with a minimum of setup required. The surface is completely in english. The tools are only compatible to the device series and interface cards listed below. Also see page 64 about interfaces.

EasyPower Lite (电源产品用)

- 一个实例控制一台产品
- 与下面系列产品兼容：
 - PSI 9000
 - PSI 8000 T / DT / 2U / 3U
 - PS 8000 T / DT / 2U / 3U
 - PSI 800 R
- 数据采集 (CSV文档)
- 以列表形式列出半自动序列
- 与USB (IF-Ux, IF-Ex) 和 RS232 (IF-Rx)接口卡兼容

EasyPower Lite (for Power Supplies only)

- One device can be controlled per instance
- Compatible to the device series:
 - PSI 9000
 - PSI 8000 T / DT / 2U / 3U
 - PS 8000 T / DT / 2U / 3U
 - PSI 800 R
- Data acquisition (CSV files)
- Semi-automatic sequences by list tables
- **Compatible to interface cards USB (IF-Ux, IF-Ex) and RS232 (IF-Rx)**

EasyLoad Lite (电子负载用)

- 一个实例控制一台产品
- 与下面系列产品兼容：
 - EL 3000
 - EL 9000
 - EL 9000 HP
- 数据采集 (CSV文档)
- 以列表形式列出半自动序列
- 与USB (IF-Ux, IF-Ex) 和 RS232 (IF-Rx)接口卡兼容

EasyLoad Lite (for Electronic Loads only)

- One device can be controlled per instance
- Compatible to the device series:
 - EL 3000
 - EL 9000
 - EL 9000 HP
- Data acquisition (CSV files)
- Semi-automatic sequences by list tables
- **Compatible to interface cards USB (IF-U1), Ethernet (IF-E1B) and RS232 (IF-R1)**

系统需求

- 带Windows (XP或更新) 电脑，至少有512MB RAM
- 150MB硬盘空间
- 有数据分析用Excel 或 OpenOffice Calc 计算软件

System requirements

- Windows-PC (XP or newer) with min. 512MB RAM
- 150MB free harddisk space
- Excel or OpenOffice Calc for data analysis

按照客户需求还可提供带扩展功能的其它软件或版本。

Other softwares or versions with extended functionality upon request.

EA-IF系列 / EA-IF SERIES 数字与模拟接口卡 / DIGITAL & ANALOGUE INTERFACE CARDS



- 可轻易安装及拆卸
- 通过产品设置菜单可简便地进行配置
- 多台不同设备可轻易联网
- 绝缘耐压高达2000V
- 软件刻录成CD，配有工具和说明书

- **Retrofittable, simple installation (plug'n'play)**
- **Easy configuration via a setup menu on the device**
- **Simple networking of different devices**
- **Galvanic isolation up to 2000V**
- **Software CD with tools and documentation**

概述

EA接口卡有插拔式数字和模拟卡，适用于不同系列的可编程电源供应器、充电器或电子负载用。

对于**PSI 800 R**和**BCI 800 R**系列墙挂式产品，有专门的接口卡。见下表型号结尾为„2“的接口卡。

支持LabView™

针对有些数字接口卡我们可供即时使用的LabView™ VIs，见下表。

支持其他编程语言

通讯协议可轻易打开，它存储于文件内。故可应用到任何编程语言。

软件和驱动程序

随同接口卡，还附有一工具CD，里面含有文件和软件。软件分为Windows软件套件**EasySoft**（也可参考63页）和LabView™ VIs。特定接口卡支持的软件和产品型号请参考下表。

型号概览

接口卡型号: **USB**

- EA-IF-U1 产品编号: 33100212
- EA-IF-U2 产品编号: 33100220
- 带VCP的USB驱动程序
- 传输速度: 最大57600 Bd
- 隔离电压: 最大2000V DC

接口卡型号: **CAN**

- EA-IF-C1 产品编号: 33100214
- EA-IF-C2 产品编号: 33100222
- 可变数据传输速率，最高可达1Mbit/s
- 兼容CAN2.0A
- 内置可选总线终端
- 隔离电压: 最大2000V DC

General

The EA interface cards are pluggable digital resp. analogue cards for different series of programmable power supplies, battery charger or electronic loads.

There are special versions of some interface cards available for wall mount series **PSI 800 R** and **BCI 800 R**. See overview below, model names with „2“ at the end.

Support for LabView™

For some of the digital cards we provide ready-to-use LabView™ VIs. See table below.

Support for other programming languages

The communication protocol is open and included in the documentation. Thus it can be integrated in virtually any programming language.

Software and drivers

The interface cards are delivered with a tools CD that includes documentation and software. The software is divided into the Windows software suite **EasySoft** (also see page 63) and LabView™ compatible VIs. For the software and device support of the particular interface cards see table below.

Model overview

Interface type: **USB**

- EA-IF-U1 Art.No. 33100212
- EA-IF-U2 Art.No. 33100220
- USB driver with VCP (Virtual Com Port)
- Transfer speed: max. 57600 Bd
- Galvanic isolation: max. 2000V DC

Interface type: **CAN**

- EA-IF-C1 Art.No. 33100214
- EA-IF-C2 Art.No. 33100222
- Variable data transmission rates up to 1Mbit/s
- CAN2.0A compatible
- Integrated, selectable bus termination
- Galvanic isolation: max. 2000V DC

EA-IF系列 / EA-IF SERIES

数字与模拟接口卡 / DIGITAL & ANALOGUE INTERFACE CARDS

接口卡型号: Analog

- EA-IF-A1 产品编号: 33100215
- 电隔离
- 电压范围可调 (如: 0...5V, 2...7V)
- 数字和模拟输入、输出脚
- 输出/输入脚可参数化
- 隔离电压: 最大2000V DC

接口卡型号: IEEE/GPIB

- EA-IF-G1 产品编号: 33100216
- 命令执行时间典型值 < 30ms
- SCPI指令集
- 隔离电压: 最大2000V DC

接口卡型号: RS232

- EA-IF-R1 产品编号: 33100213
- EA-IF-R2 产品编号: 33100221
- 可变波特率高达57600 Baud
- 隔离电压: 最大2000V DC

接口卡型号: Ethernet/LAN

- EA-IF-E1B 产品编号: 33100227
- SCPI指令集
- 指令执行时间 ≥ 20ms
- 带用户控制接口的HTTP服务器
- 增加一USB端口可执行IF-U1卡的功能
- 隔离电压: 最大1500V DC

接口卡型号: Profibus-现场总线

- EA-IF-PB1 产品编号: 33100219
- 符合IEC 61158标准
- 数据传输速率高达12MBit/s
- 一个总线段可连接多达30台设备
- 增加一USB端口可执行IF-U1卡的功能
- 隔离电压: 最大1000V DC

Interface type: Analogue

- EA-IF-A1 Art.No.33100215
- Galvanically isolated
- Voltage range adjustable (e.g. 0...5V, 2...7V)
- Digital and analogue inputs and outputs
- Outputs / inputs parameterisable
- Galvanic isolation: max. 2000V DC

Interface type: IEEE/GPIB

- EA-IF-G1 Art.No. 33100216
- Command execution time < 30ms typ.
- SCPI command set
- Galvanic isolation: max. 2000V DC

Interface type: RS232

- EA-IF-R1 Art.No. 33100213
- EA-IF-R2 Art.No. 33100221
- Variable baud rates up to 57600 Baud
- Galvanic isolation: max. 2000V DC

Interface type: Ethernet/LAN

- EA-IF-E1B Art.Nr. 33100227
- SCPI command set
- Command execution time ≥ 20ms typ.
- HTTP server with user control interface
- Integrated IF-U1 functionality by add. USB port
- Galvanic isolation: max. 1500V DC

Interface type: Profibus

- EA-IF-PB1 Art.Nr. 33100219
- According to standard IEC 61158
- Data transmission rate up to 12MBit/s
- Up to 30 units on a bus segment
- Integrated IF-U1 functionality by add. USB port
- Galvanic isolation: max. 1000V DC

	IF-U1	IF-U2	IF-R1	IF-R2	IF-C1	IF-C2	IF-G1	IF-E1b	IF-PB1	IF-A1
	USB	USB	RS232	RS232	CAN	CAN	GPIB	Ethernet	Profibus	Analog
PS 8000 T / DT / 2U	•		•		•		•	•	•	
PS 8000 3U	•		•		•		•	•	•	
PSI 8000 T / DT / 2U	•		•		•		•	•	•	•
PSI 8000 3U	•		•		•		•	•	•	•
PSI 800 R		•		•		•				
BCI 800 R		•		•		•				
EL 3000	•		•		•		•	•	• ²	
EL 9000 (HP)	•		•		•		•	•	• ²	
BCI 8000	•		•		•					
EasyLoad Lite	•	•	•	•				• ¹	• ¹	
EasyPower Lite	•	•	•	•				• ¹	• ¹	
LabView™ VIs	•	•	•	•			•	•		

¹ 仅能通过额外的USB端口完成 / only via the additional USB port

² 按需求可供 / upon request

提示: 表格上半部分显示哪些产品支持哪类接口卡。下半部分显示哪类接口卡具有哪些软件。意思是, 带Ethernet接口卡的电子负载产品支持EasyLoad Lite软件, 但是只能使用接口卡的USB端口。

Note: the upper part of the table indicates which device supports which interface cards. The lower part shows, for which interface cards there is software available. It means, for example, that an electronic load with an Ethernet card is supported by EasyLoad Lite, but only if the USB port of the card is used.