EA-IF

数字接口卡
Digital interface cards

EA-IF-XX Series

- 可改装、可插拔、可更换
- 安装简易（即插即用）
- 通过产品上的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2000 V
- 软件刻录成CD，存有工具和说明书
- 对所选接口可使用LabView VIs

概要

EA-IF系列接口卡都是可插拔式数字或模拟卡，适用于旧系列可编程电源、充电器或电子负载。

支持编程

针对USB，RS232，GPIB与Ethernet数字接口卡，我们提供即时使用的LabView VIs，见下表。光碟上的文件包内有一通讯协议。因此所有接口卡都能应用于任何编程语言下。

软件和驱动程序

随接口卡，还附有一CD，里面含有相关文件和软件。软件分为Windows软件套件*EasySoft*（也可参考158页）和LabView VIs。特定接口卡支持的软件和产品型号请参考下表。

应用

这些接口卡涵盖了很多应用领域。比如：USB接口几乎在所有电脑上都配备。RS232接口可在产品与电脑之间架起一个长达30 m的距离。Ethernet-以太网卡可将多台产品集成到标准或公司网络，也可从中间点对其控制与监控。
CAN用于直接将多台产品联网，从而为控制器（如电脑或控制件）连成一个电源或电子负载串。

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

General

The interface cards of series EA-IF are pluggable digital or analog cards for older series of programmable power supplies, battery chargers or electronic loads.

Programming support

For the digital interface with USB, RS232, GPIB and Ethernet we provide ready-to-use LabView VIs. See table below. The communication protocol is documented and included in the package. Thus all interfaces 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 158) and LabView compatible VIs. For the software and device support of the particular interface cards see table below.

Applications

The interfaces cover many application areas. For example, USB is practically available everywhere with a PC. With RS232, the user can bridge distances of up to 30 m between device and PC. Using Ethernet many devices can be integrated into a standard local or company network and can be controlled and monitored from a central location.
CAN is used to network multiple devices directly, making it easier to connect a string of power supplies or electronic loads to the controlling unit, such as PC or PLC.

EA-IF-XX

USB
- 型号：EA-IF-U1 (订购编号：33100212)
- 型号：EA-IF-U2 (订购编号：33100220)
- 带虚拟COM口（VCP）的USB驱动程序
- 传输速度：最大57600 Bd

CAN
- 型号：EA-IF-C1 (订购编号：33100214)
- 型号：EA-IF-C2 (订购编号：33100222)
- 可变数据传输速率高达1Mbit/s
- 支持规格为2.0 A的标准CAN
- 内置可选总线终端

IEEE/GPIB
- 型号：EA-IF-G1 (订购编号 33100216)
- 指令执行时间典型值<30 ms

RS232
- 型号：EA-IF-R1 (订购编号：33100213)
- 型号：EA-IF-R2 (订购编号：33100221)
- 可变数据传输速率高达57600 Baud

Ethernet/LAN
- 型号：EA-IF-E1B (订购编号：33100227)
- 型号：EA-IF-E2B (订购编号：33100228)
- SCPI指令集
- 网络控制接口
- 一额外的USB端口可执行IF-U1卡的功能

Profibus
- 型号：EA-IF-PB1 (订购编号：33100219)
- 符合IEC 61158标准
- DPV0与DPV1从机
- 数据传输速率高达12MBit/s
- 一个总线段可连接多达30台设备
- 一额外的USB端口可执行IF-U1卡的功能

USB
- Type: EA-IF-U1 (Ord. No. 33100212)
- Type: EA-IF-U2 (Ord. No. 33100220)
- USB driver with virtual COM port (VCP)
- Transfer speed: max. 57600 Bd

CAN
- Type: EA-IF-C1 (Ord. No. 33100214)
- Type: EA-IF-C2 (Ord. No. 33100222)
- Variable data transmission rates up to 1Mbit/s
- Supports standard CAN specification 2.0 A
- Integrated, selectable bus termination

IEEE/GPIB
- Type: EA-IF-G1 (Ord. No. 33100216)
- Command execution time <30 ms typ.

RS232
- Type: EA-IF-R1 (Ord. No. 33100213)
- Type: EA-IF-R2 (Ord. No. 33100221)
- Variable baud rates up to 57600 Baud

Ethernet/LAN
- Type: EA-IF-E1B (Ord. No. 33100227)
- Type: EA-IF-E2B (Ord. No. 33100228)
- SCPI command set
- Web control interface
- Integrated IF-U1 functionality by add. USB port

Profibus
- Type: EA-IF-PB1 (Ord. No. 33100219)
- According to standard IEC61158
- DPV0 and DPV1 slave
- Data transmission rate up to 12MBit/s
- Up to 30 units on a bus segment
- Integrated IF-U1 functionality by add. USB port

	IF-U1	IF-U2	IF-R1	IF-R2	IF-C1	IF-C2	IF-G1	IF-E1B	IF-PB1	IF-A1	IF-E2B
	USB	USB	RS232	RS232	CAN	CAN	GPIB	Ethernet	Profibus	Analog	Ethernet
PS 8000 T / DT / 2U	•		•		•		•	•	•		
PS 8000 3U	•	•	•		•		•	•	•		
PSI 8000 T / DT / 2U	•		•		•		•	•	•	•	
PSI 8000 3U	•		•		•		•	•	•	•	
PSI 800 R		•		•		•					•
BCI 800 R		•		•		•					
PSI 9000	•		•		•		•	•	•	•	
EL 3000	•		•		•		•	•			
EL 9000 (HP)	•		•		•		•	•			
EasyLoad Lite	•	•							•		•
EasyPower Lite	•	•	•	•							
LabView VIs	•	•	•	•			•		•		•
Isolation DC (max.)	2000 V	2000 V	2000 V	2000 V	2000 V	2000 V	2000 V	1500 V	1000 V	2000 V	1500 V

1) 只能经另外的USB端口操作 / only via the additional USB port

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 what 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.