



ECS-PCIe 1100

EtherCAT® Slave Interface for PCs

- Make your PC an EtherCAT slave node

Simple EtherCAT® Slave Interface for PCs

The ECS-PCIe/1100 is a PC board designed for PCI Express slots. It features an EtherCAT® slave using the Ethernet physical layer via two RJ45 Ethernet sockets.

The board uses the ET1100 EtherCAT® slave controller (ESC) ASIC that comes with 8 kBytes memory and 8 EtherCAT® sync managers. The ET1100 ESC address space is directly mapped to the PCIe address space.

Applications

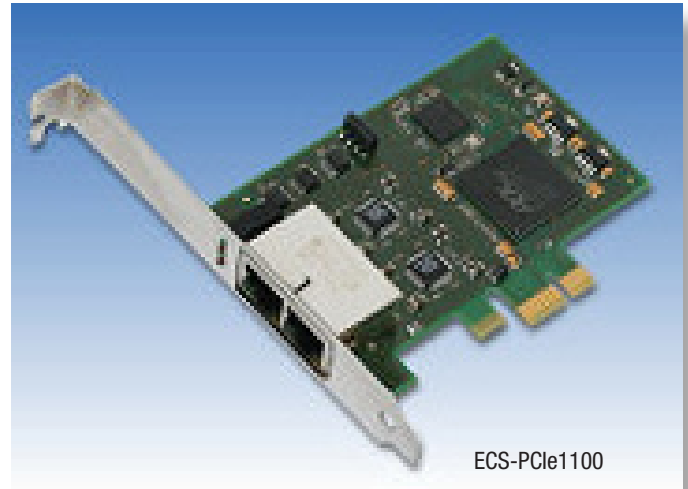
The ECS-PCIe/1100 integrates any PC into an EtherCAT® network and makes it an EtherCAT® slave node. The PC can act as I/O node. An EtherCAT® master can use several EtherCAT® protocols like CoE, FoE and EoE to communicate with the PC.

Configuration and protocols

Configuration accomplished through the EtherCAT® master. esd provides a sample device description file (XML).

Software Support

Device drivers for Windows and Linux are available. Drivers for other operating systems, especially realtime-OS, are available on request. For application development, esd offers a slave API library as well as sample code.



EtherCAT®

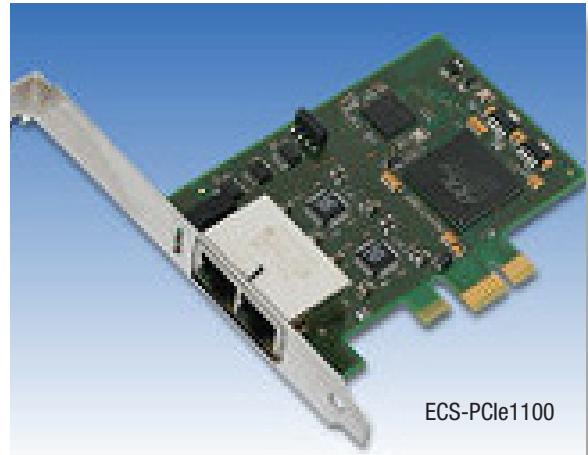
For further information please visit
<http://www.esd-electronics-usa.com/EtherCat-Products.html>

growing with the
challenge

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Technical Specifications:

PCI Express interface:	
PCIe endpoint:	PLX PEX8311
PCIe port:	according to PCI Express Specification R1.0a
Link width:	1x
EtherCAT® slave controller (ESC):	
ESC ASIC:	ET1100
ESC interface:	2x RJ45, 100BASE-TX, 100 Mbit/s, IEEE 802.3, electrically isolated
General:	
Supply voltage:	3.3V via PCIe
Operating temperature:	0...50° C
Dimensions [mm]:	96mm x 70mm (low profile PCIe)
LEDs:	ERROR, RUN, EL
Connectors:	EtherCAT®: 2x RJ45 PCIe: PCIe card edge connector

Order Information:

Designation		order no.
ECS-PCIe/1100	PCI Express board with EtherCAT® slave controller ET1100	E.1100.02

EtherCAT®

