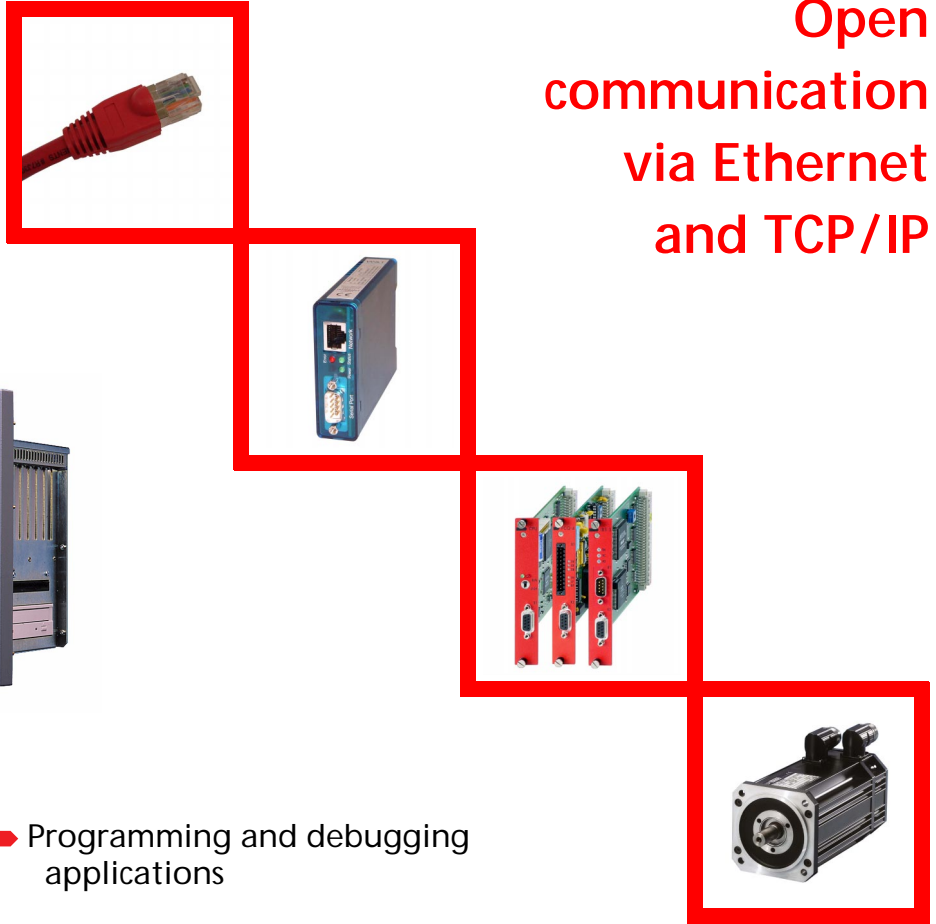


open  
motion  
control

SYSTEM-90E

Open  
communication  
via Ethernet  
and TCP/IP



➤ Programming and debugging applications

➤ Simple connection of user interfaces

➤ Transparent integration with existing installations

➤ Loading process data via the network

➤ Networkwide access to several control units

➤ Online coupling of machine operating procedures



ETHERNET

## ➤ Virtual COM interfaces

As can be seen in its name, a virtual COM interface is an interface which from the standpoint of the computer exists but in reality is not to be found anywhere within the computer itself.

A virtual interface in the form of a COM server is installed within the local area network. However, if a software driver is used, the interface will work just as if it had been built directly into the computer.

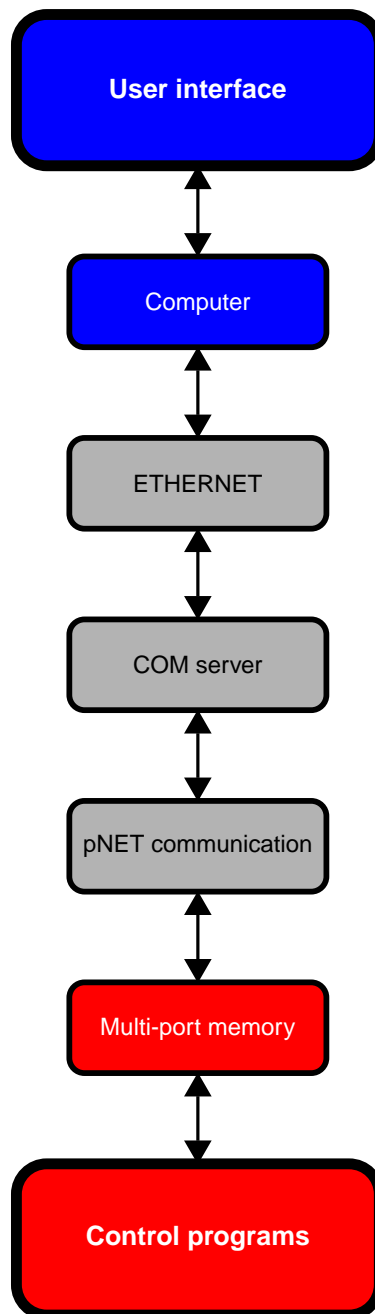
This technique makes it possible to increase the number of the computer's interfaces almost without limit. The data will be transferred transparently via the TCP/IP network protocol.

Since a virtual interface works like a permanently installed one, practically any software application can be used with virtual interfaces. This is particularly advantageous when using already existing programs.

In conjunction with SYSTEM-90E, data can be transported very flexibly between computer and control unit.

- One computer with one or more control units
- One control unit with several computers
- Mixed topologies

Of course the PIDS-90 software package for creating programs, debugging and maintaining SYSTEM-90E can be used through virtual COM interfaces.



## ➤ Multi-port memory

Multi-port access is provided to all registers created in the memory. This means that any register can be read from and written to from various locations at any time.

These access operations are coordinated by the operating system without requiring additional provisions to be made on the programming side.

The fact that the multi-port memory can also be accessed via pNET communications provides a universal and efficient method by means of which external equipment, in particular computers, can exchange data with SYSTEM-90E.

## ➤ pNET communication

pNET communication means SYSTEM-90E's capability of accessing the control unit's multi-port memory directly via serial interfaces.

Here, the connected unit (computer) can either read or write the multi-port memory variables as required.

Since pNET communication is a permanent component of the operating system, the reply to telegrams is received within a very short time. This generates a high data throughput and, simultaneously, short response times.

pNET communication opens up an almost unlimited range of possibilities:

- direct online coupling of machine operating procedures
- setting process data
- collecting operational data
- simple connection of user interfaces

Server manufacturers	Wiesemann & Theis GmbH	Moxa Technologies Co. Ltd.
Typ	Com-Server Highspeed Industry	NPort-Express
Article number	58631	DE-311
Power supply	12 ... 40V <sub>DC</sub> or wall power supply	wall power supply
Baud rate	up to 115200 baud	up to 115200 baud
Web adress	www.wut.de	www.moxa.com