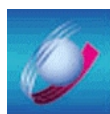


Lenze

Manual



DriveServer



Global Drive
DriveServer – Accessories

Version			ID-No.	Changes
1.0	02/2001	TD02		First edition

Important note :

The software is made available to the user in the present form. All risks regarding the quality and the results detected by using them remain in the responsibility of the user. The user must provide all safety measures protecting against possible maloperation.

We do not take any liability for direct or indirect damage, e.g. profit loss, order loss or any loss regarding business.

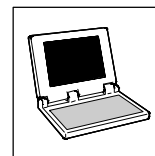
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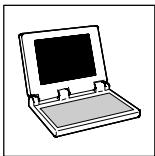
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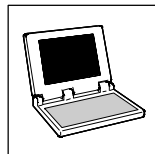


1 OPC bus server	1-1
1.1 CANopen OPC-Server	1-1
1.2 _is OPC-MultiServer	1-2
1.3 Bus server S7-MPI	1-3
2 RS232/RS485 interface converter	2-1



DriveServer

Contents



1 OPC bus server

The DriveServer is an open system which co-operates with OPC bus servers made by different manufacturers. In the following you will find a list of bus servers optimised for use together with the DriveServer and tested by Lenze.



Tip!

Please observe the Installation/Commissioning instruction for the bus server hardware and software given by the manufacturer.

1.1 CANopen OPC-Server

Fieldbus:	CANopen					
Supplier:	Softing AG, D-85540 Haar Internet: http://www.softing.com					
Interface module design:						
	ISA	PCI	PCMCIA	PC104	USB	RS232
		☒	☒	☒		
Supported operating systems:						
	Windows 95	Windows 98	Windows NT	Windows 2000		
			☒	☒		

In the following you will find information how to configure the **CANopen OPC-Server** manufactured by Softing as bus server for the Lenze DriveServer.



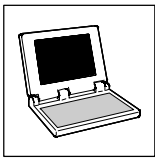
Tip!

For more detailed information about the use of the **CANopen OPC-Server** please see the documentation coming with the program.

The **CANopen OPC-Server** is configured with the program "CANopen configurator".

Basic settings for the interface module

- The **baud rate** of the interface module is to be adapted to the baud rate of the connected controller.
 - Lenze controllers are default set to 500 Kbaud.
- The **node-ID** 127 is reserved for the interface module.



DriveServer

Accessories

Automatic detection of connected drives

- The CANopen addresses 1 to 63 correspond to the Lenze drive addresses 1 to 63 for parameter channel 1. If you want to use parameter channel 2, use the CANopen addresses 65 to 126. More detailed information about the parameter channels can be obtained from the documentation for the corresponding Lenze interface module.
- Address 127 is reserved for the interface module.
- With automatic detection of the drives, every drive is found twice.
- With some 'older' drives, which do not support the CANopen object 1000hex, the automatic detection is not working. These drives must be configured manually.

Assignment of the controller-specific description file

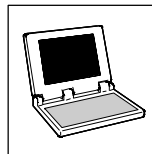
- Every drive must be assigned to a controller-specific description file (EDS/DCF file) and a drive parameter must be declared as OPC parameter.
 - With the DriveServer it is always possible to use the file "Lenze.eds", which is stored under "C:\Programs\DriveServer\EDS" when the DriveServer software is installed in its standard version.
- Furthermore, the dialog box *Properties* gives the option to activate a cyclic **node monitoring** to detect a node failure. However, not all interface modules support this function. We therefore recommend to deactivate this option.

Determination of the current configuration

- After you have completed and exported the configuration, select the configuration to be used for the CANopen OPC-Server by means of the program "CANopen Planning tool".
- Use the DriveServer configuration to assign the CANopen OPC-Server as bus server for the DriveServer.

1.2 is OPC-MultiServer

Fieldbus:	PROFIBUS-DP					
Supplier:	Ifak system GmbH, D-39179 Barleben Internet: http://www.ifak-system.com					
Interface module design:						
	ISA	PCI	PCMCIA	PC104	USB	RS232
	☒		☒	☒	☒	
Supported operating systems:						
	Windows 95	Windows 98	Windows NT	Windows 2000		
	☒	☒	☒	☒		



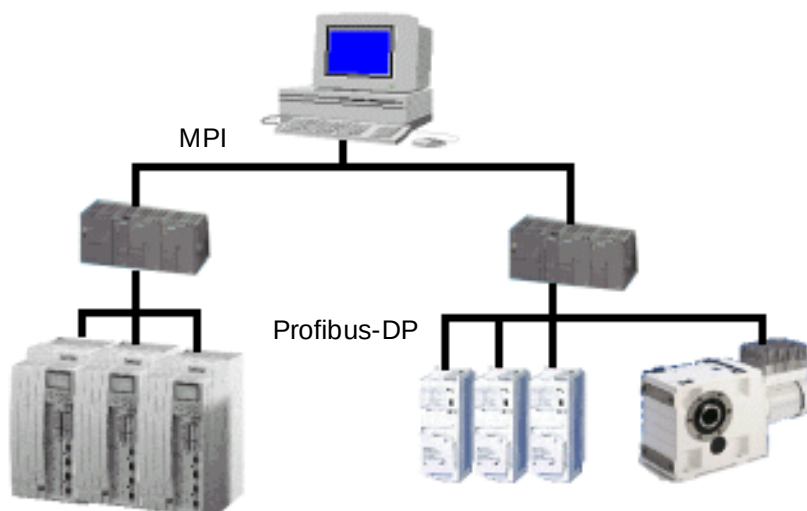
1.3 Bus server S7-MPI

Fieldbus:	Siemens S7 MPI					
Supplier:	Hardware (MPI module): Siemens AG, Automation & Drives Internet: http://www.ad.siemens.de					
	Software (bus server S7-MPI): Lenze GmbH & Co KG, D-31763 Hameln Internet: http://www.Lenze.de					
Interface module design:						
	ISA	PCI	PCMCIA	PC104	USB	RS232
	☒	☒	☒			☒
Supported operating systems:						
	Windows 95	Windows 98	Windows NT	Windows 2000		
	☒	☒	☒	☒		

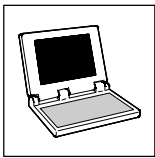
The **bus server S7-MPI** which is also available at Lenze, provides the possibility to access all Lenze controllers connected to a Siemens S7 PLC via Profibus-DP.

Because of the integration of special function modules (part of the delivery package of the bus server S7-MPI) into the S7 program, the DriveServer can access all drive parameters. Additional changes of the S7 program are not necessary. The OPC client accesses the drive parameters through the PLC in a way that the PLC does not seem to be there.

The following figure shows the principle architecture of a system:



- The drives are connected to the PLC via Profibus-DP.
- The two PLCs are interconnected via the MPI bus.
- The PC with the DriveServer is also connected to the MPI bus and uses a bus server for the PLC (**Lenze bus server S7-MPI**).
- Because of special Lenze function block module in the S7 program it is possible to access drives from the PC via a PLC but without noticing the PLC.



DriveServer

Accessories

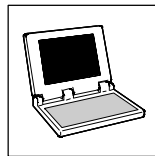
Interface cards made by Siemens can be used as MPI connection module for the PC. The S7 itself does not need an additional connection module since the S7 already includes an MPI interface.

The system can be configured easily because the drives connected are detected through the MPI interface. Only basic communication parameters need to be configured.



Tip!

For more detailed information about the use of the **Bus server S7-MPI** please see the documentation coming with the program.

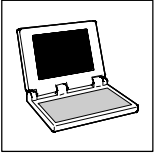


2 RS232/RS485 interface converter

The operation of a LECOM network based on RS485 requires an interface converter for the connection to the PC. This converter must be equipped with an automatic reverser since the use of two cores only enables half duplex operation.

We recommend the following products:

Product:	I-7520 isolated RS232 to RS485 converter
Supplier:	Spectra Computersysteme GmbH Humboldtstraße 36 D-70771 Leinfelden/Echterdingen



DriveServer

Accessories