MDIS device

MDIS device communication protocol

Description Communication line configuration Communication station configuration Configuration of interfaces Literature Changes and modifications Document revisions

Description

MDIS device protocol is used to control input-output peripherals and hardware of watchdog of devices produced by MEN.

Communication line configuration

Communication line category: API

Communication station configuration

Station protocol parameters

Parameter	Description	Default value
Full Debug	Logging is enhanced with listings that enable fast error detection.	NO
I/O Interface Name	Unique text identifier of interface with binary input-outputs.	z17_9
Watchdog Interface Name	atchdog Interface Name Unique text identifier of interface of HW watchdog.	
Control Interface Name	Unique text identifier of interface that is used to configure other interfaces.	z17_1

Configuration of interfaces

The configuration of MDIS5 interfaces is possible through Device Manager of Windows OD, tab "MDIS5 devices".

Types of interfaces can be identified by their name. **Binary IO** peripheral is a device called **16Z037_GPIO**. The name of **configuration interface** is **16Z034** _**GPIO**. In Device Manager you may find more devices of the same name. Therefore, you should display the properties to identified the particular interface. This interface should be placed in "**cham-slot 2(is instance 2)**" (see figure below). Next interface is **HW watchdog**, its name is **XM01BC**.

🚔 Device Manager	_ 🗆 🗙
<u>Eile Action View H</u> elp	
E	
E	
🚊 👝 Disk drives	
📄 🖶 📲 Display adapters	
🖶 🕼 Human Interface Devices	
🗄 🛶 🕁 IDE ATA/ATAPI controllers	
🖶 🛲 Keyboards	
🖶 🔚 MDISS BBIS instances	
🖕 💭 MDIS5 devices	
- If Z034_GPIO - GPIO controller in Chameleon FPGA - [z17_1]	
- I6Z037_GPIO - GPIO controller with serial interface in Chameleon FPGA - [z17_2]	
🗄 👘 MEN Genacc	
🗄 🖑 Mice and other pointing devices	
🖶 🗄 Modems	
🗄 📲 Monitors	
🖶 👜 Multifunction adapters	
E Setwork adapters	
Intel(R) 82574L Giaabit Network Connection	

Each of these devices can be addressed via its unique identifier. The modification of identifier can be done in "Device Manager -> MDIS device -> Properties -> "Device Settings" tab.

16Z034_GPIO - GPIO controller in Chameleon FPGA - [z17_1] Properties 🔀					
General Device Settings Driver Details Resources					
	[z17_1] 16Z034_GPIO - GPIO controller in Chameleon FPGA - [z17_1]				
	Device type:	MDIS5 devices			
	Manufacturer:	MEN Mikro Elektronik			
	Location:	cham-slot 2 (is instance 2)			
Device status cham-slot 2 (is ins					
This	device is working p	roperly.			
		OK	Cancel		

Literature

Changes and modifications

Document revisions

• Ver. 1.0 - 13.5.2015 - creation of document

Related pages:

Communication protocols