## **MDIS** device

# MDIS device communication protocol

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#### **Description**

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

## **Communication line configuration**

· Communication line category: API

#### **Communication station configuration**

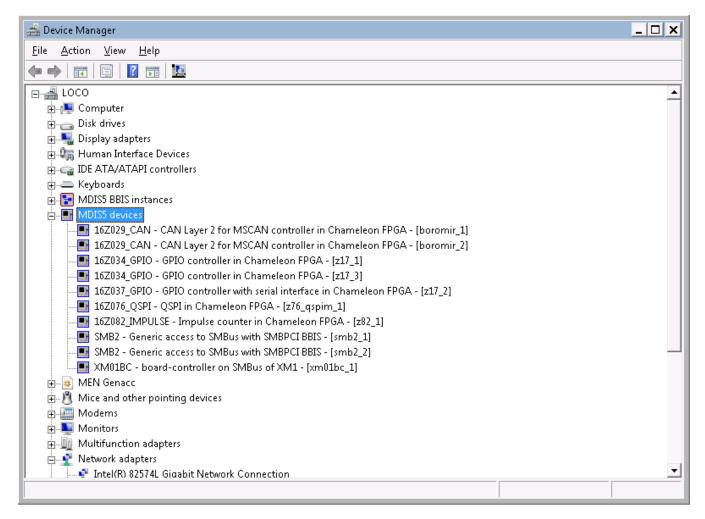
## Station protocol parameters

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	Unique text identifier of the interface of HW watchdog.	xm01bc_1
Control Interface Name	Unique text identifier of the interface that is used to configure other interfaces.	z17_1

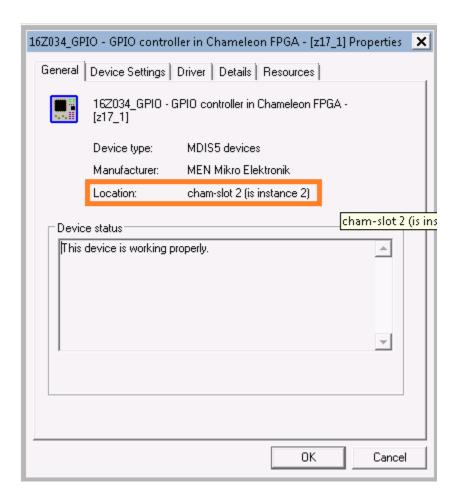
#### **Configuration of interfaces**

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

Types of interfaces can be identified by their name. **Binary IO** peripheral is a device called **16Z037\_GPIO**. The name of the **configuration interface** is **16Z 034\_GPIO**. In Device Manager, you may find more devices of the same name. Therefore, you should display the properties to identify 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**.



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.



## I/O tag configuration

Possible I/O tag types: Ai, Ao, Ci, Co, Di, Do.

Addresses of digital inputs 1-8: DIx, e.g. DI1, DI2 .. DI8

Addresses of digital outputs 1-8: DOx, e.g. DO1, DO2 .. DO8

Addresses related to watchdogs:

Address	Description	
WD_TIME	Set / query the watchdog time (in milliseconds)	
WD_ACTIVE	Set / query the watchdog status (0-inactive, 1-active)	
WD_SHUTDOWNSTATE	Set / query the shutdown status (0 - watchdog shot, 1-watchdog didn't shoot)	
WD_TRIGGER	Activation (triggering ) of the watchdog	

#### Literature

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## **Changes and modifications**

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#### **Document revisions**

• Ver. 1.0 – 13.5.2015 - the creation of the document



Related pages:

Communication protocols