

Quick Start Guide EN

xtremeDB - Danfoss PLUS+1® Integration



NOTE

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Author: info@data-panel.eu



Contact

Data Panel Ltd.
Fabrikstrasse 12
71570 Oppenweiler
GERMANY

☎Fon+49 7191 904 369-10

☎Fax+49 7191 904 369-99

info@data-panel.eu

www.data-panel.eu

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1. Introduction

1.1 Service and Support

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Call us at +49 (0) 7191 904 369-10 or send an email to: support@data-panel.eu

Service addresses

Data Panel GmbH values proximity, nationally and around the world.

USA

Data Panel Corp.

Fon +1-952-941-3511

Fax +1-952-941-3931

Email info@datapanel.com

www.datapanel.com

EUROPE

Data Panel GmbH

Fon +49 7191 904 369-10

Fax +49 7191 904 369-99

Email info@data-panel.eu

www.data-panel.eu

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2. Quick Start

2.1 Purpose of the document

This document uses a demo project to describe how to integrate the block for an xtremeDB IO module (DP-34044-1-000) into a Danfoss Guide project.

2.2 Preparatory steps

1. Download the demo project from the Data Panel EU website:



<https://www.data-panel.eu/media/archive/DP-xtremeDB-1-J1939-on-Danfoss-Plus1.zip>

2. Unzip the zip file to a known location
3. Open the demo project in your PLUS1® GUIDE software
4. Copy the required elements (function block, parameterization) from the demo project into your own project.
5. Connect the bus 'CANPort' of the module with the corresponding bus from the hardware file. According to the coding of the module the 'ModulID' is to be assigned (default 224).

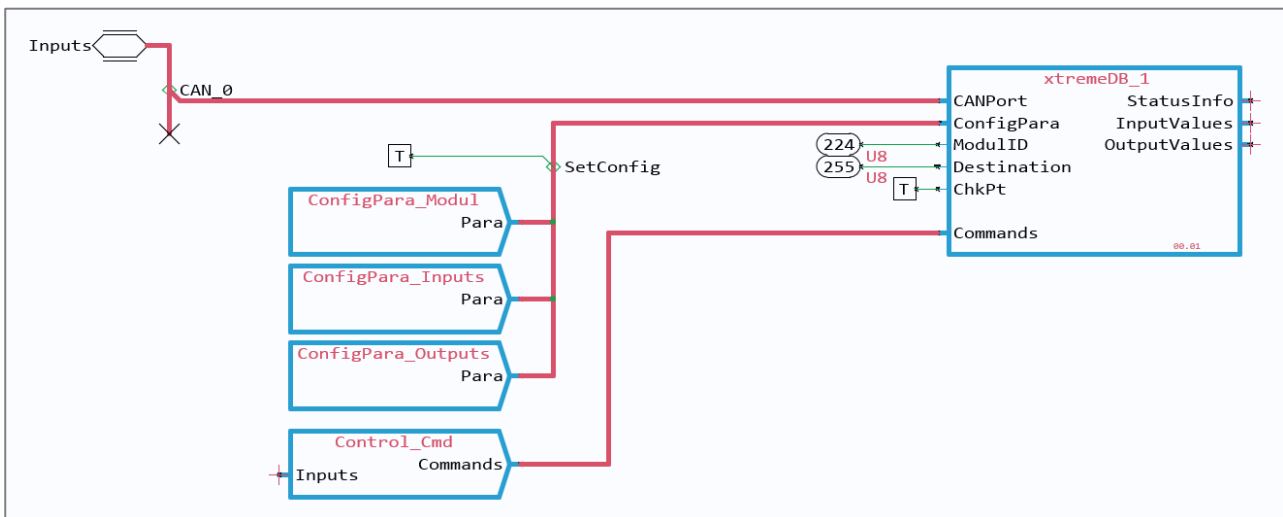


Figure 1: Integrated module

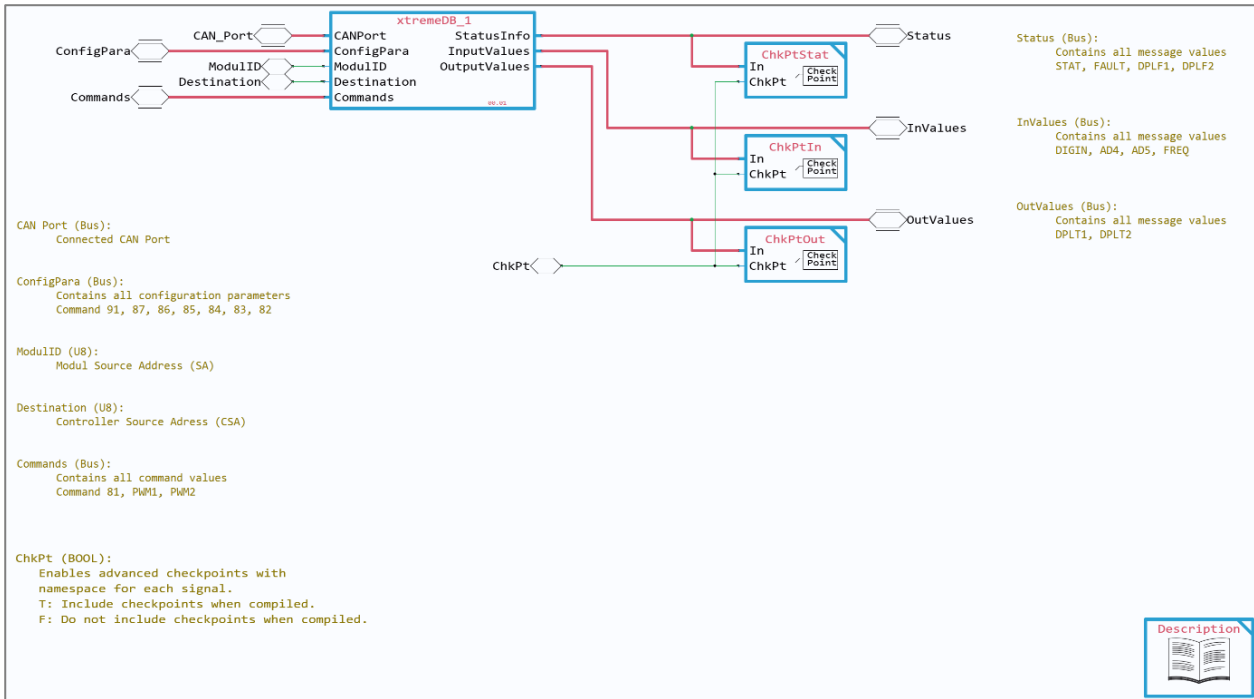


Figure 2: Building block view

2.3 Configuration

The module is configured via the parameters on the 'ConfigPara' bus. With the parameter 'SetConfig' is defined whether the parameters for the configuration of the module are to be transferred. The configuration of the module settings and the individual inputs and outputs is divided on different pages. Supporting the description on the 'Pages' in the program the data sheet is to be consulted, in order to define the possible configurations of the individual parameters and/or functionalities of the input and output channels.

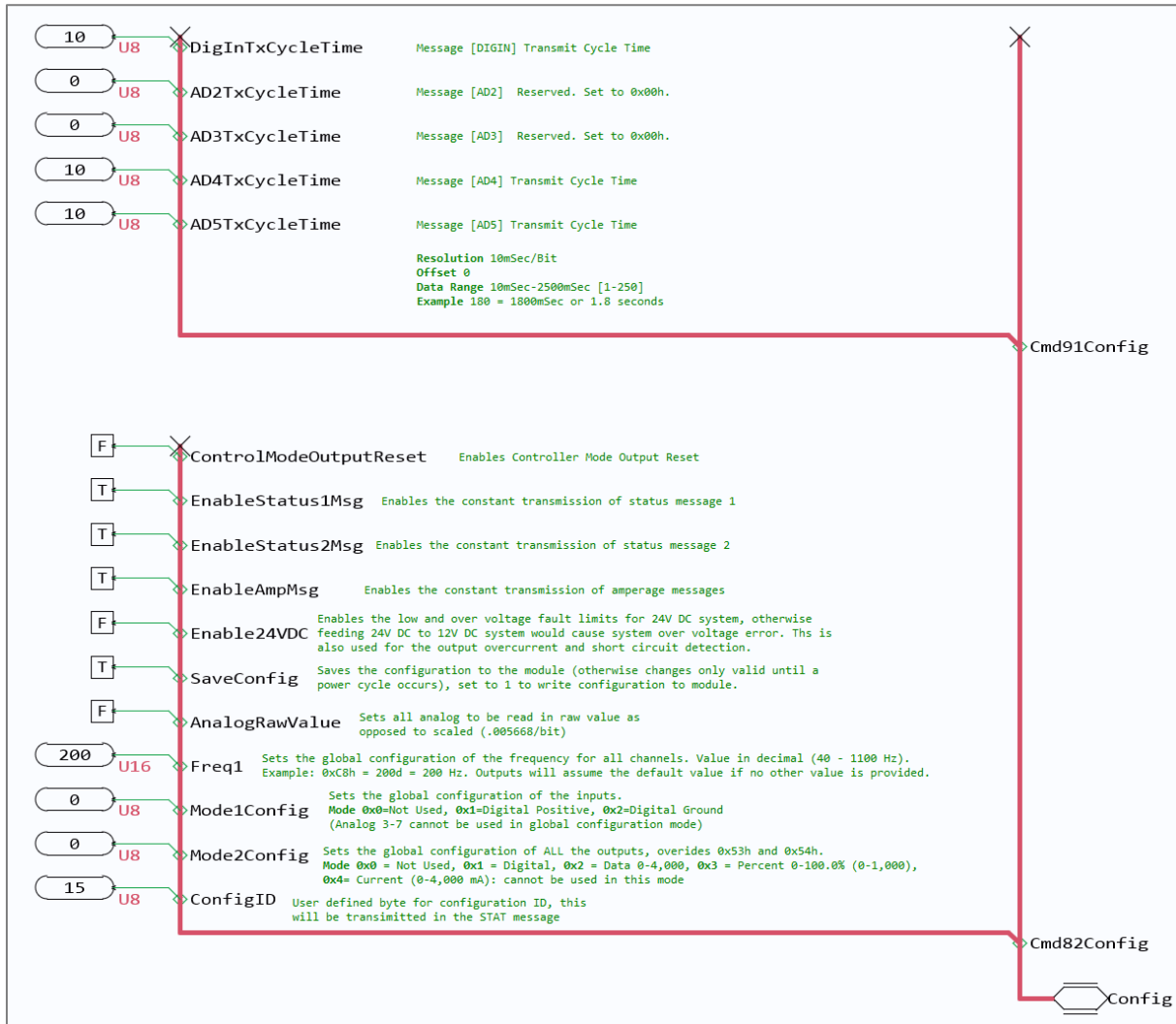


Figure 3: Configuration of the module settings ('ConfigPara_Module')

Besides the configuration of the mode of the input channels, the parameters ('Cmd87Config') for the fast inputs (IN 7A and 8A) are also to be set during runtime. In the demo project the corresponding parameters are linked to the ServiceTool application (Figure 4).

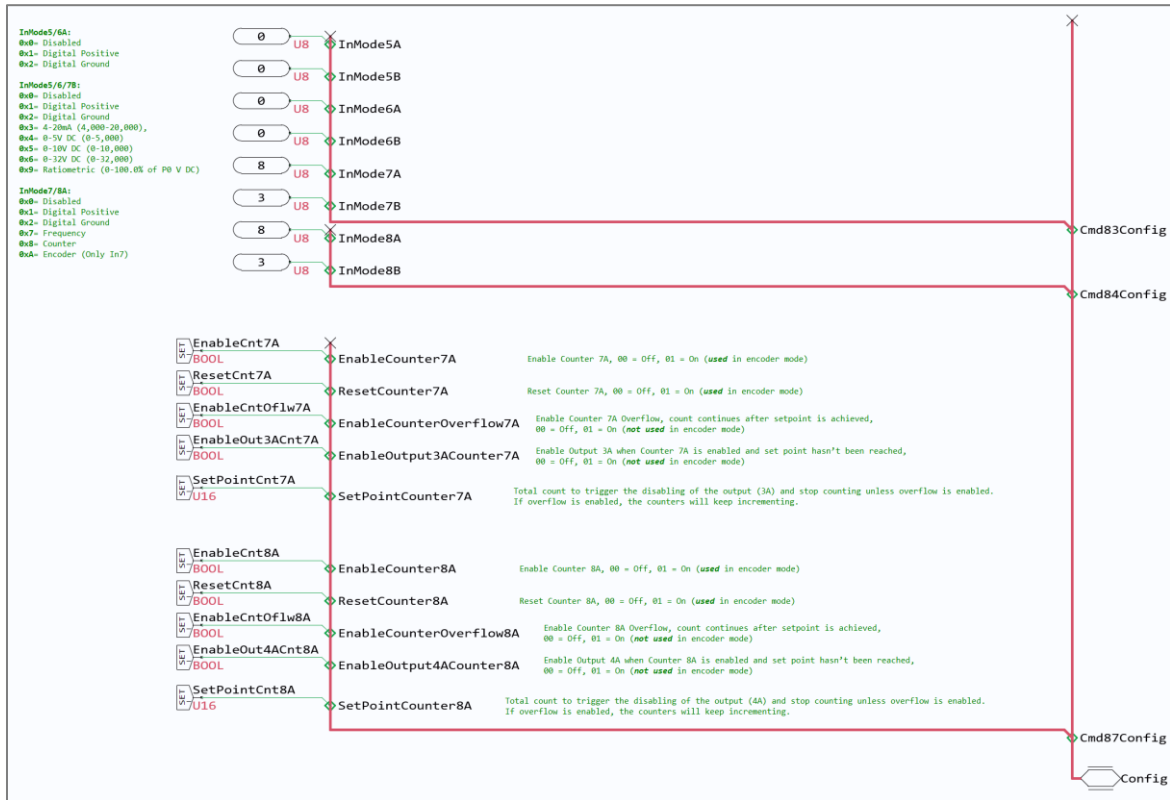


Figure 4 : Configuration of the input channels ('ConfigPara_Inputs')

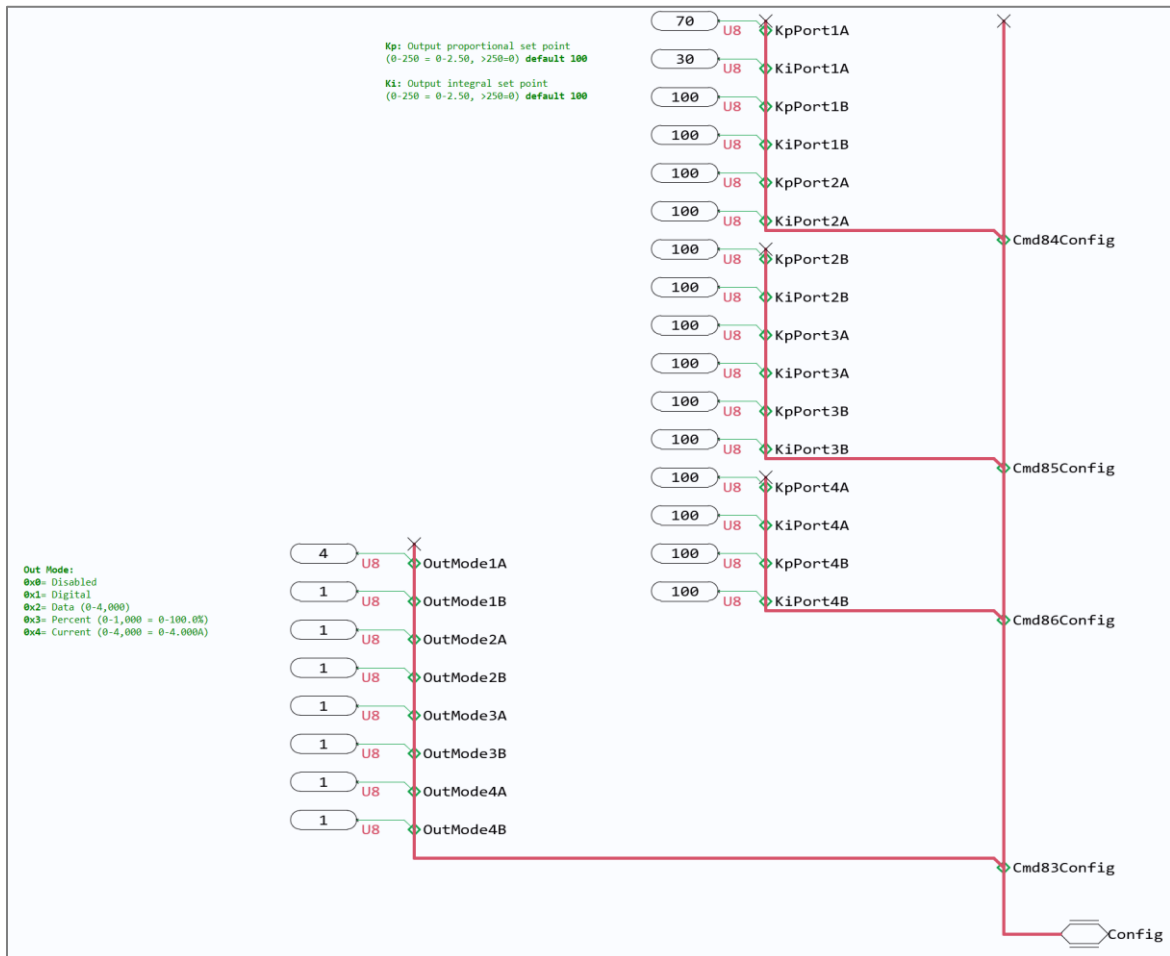


Figure 5: Configuration of the output channels ('ConfigPara_Outputs')

2.4 Configuration of input and output channels

The signals for the input and output channels are defined via the 'Commands' bus. In the demo project these are linked with the ServiceTool. To use the signals, these links can/must be released and linked with the variables from the application. These can be fed in on the 'Control_Cmd' page via the 'Inputs' bus.

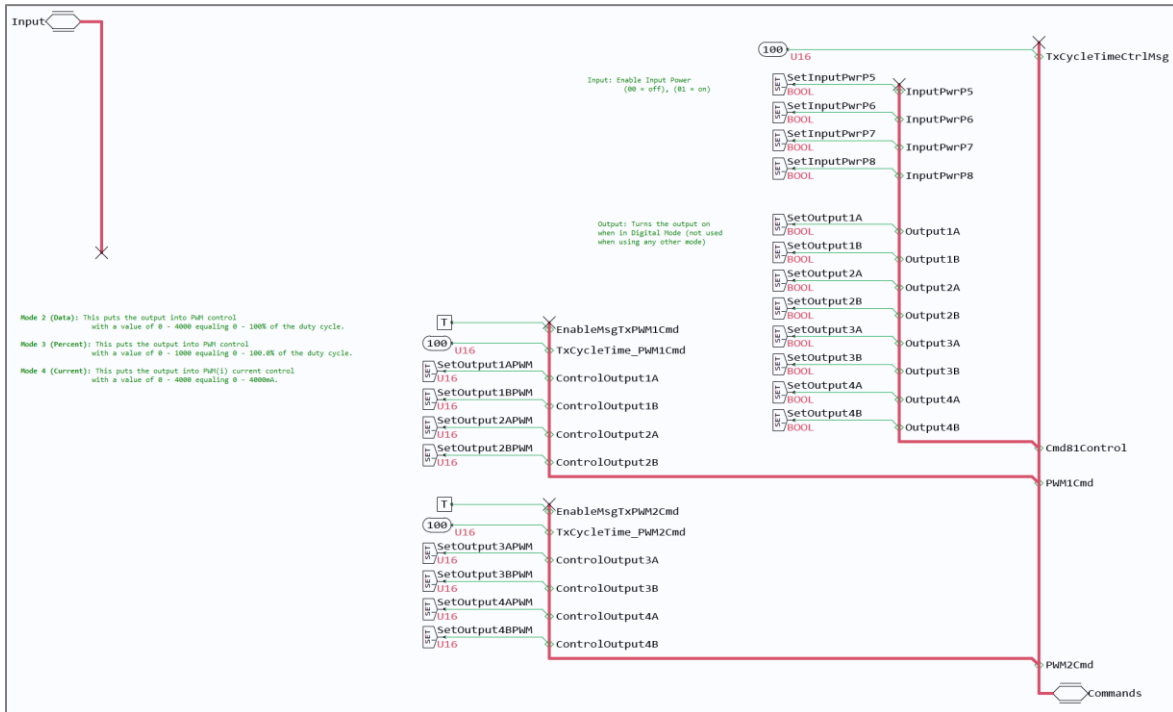


Figure 6: Linking the 'Commands'

2.5 Retrieving the input and output variables

The values of the input signals can be called up via the bus 'InValues', output signals via the bus 'OutValues' and information about the status of the module via the bus 'Status'. The contents on the respective bus are structured according to the PGNs.

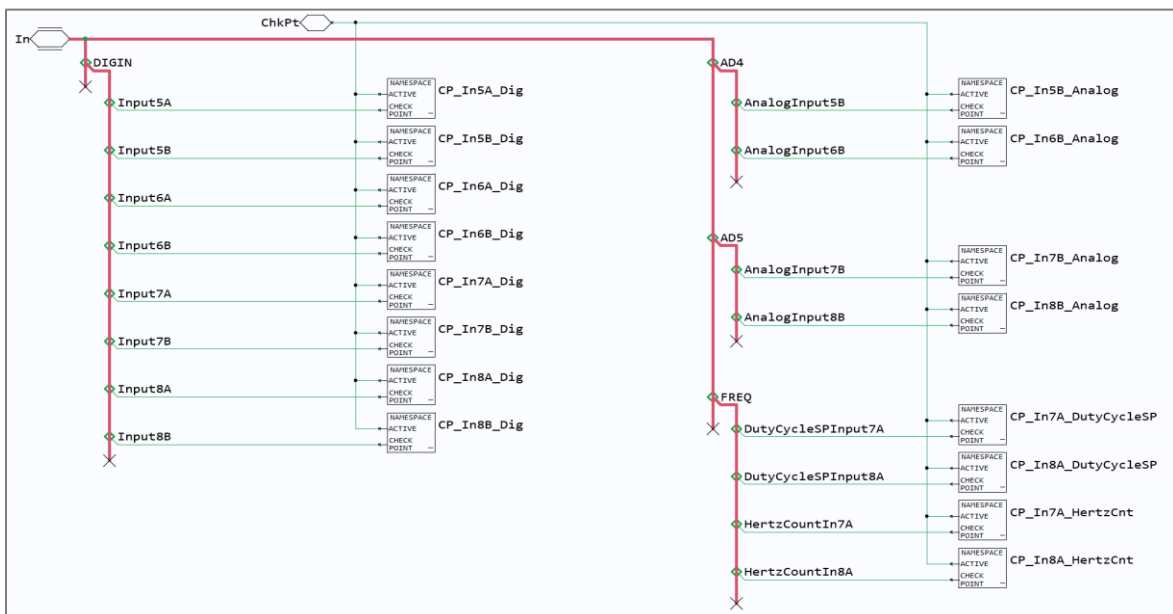


Figure 7: Input values on the 'InValues' bus

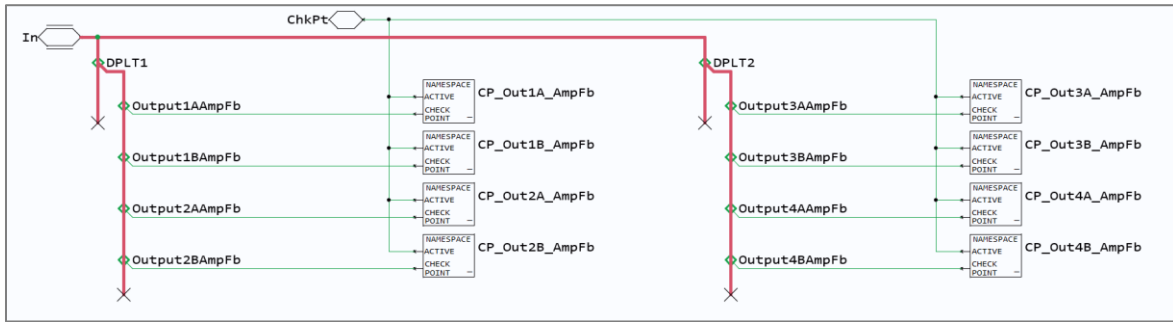


Figure 8: Output values on the 'OutValues' bus

2.6 ServiceTool

A ServiceTool application is attached to the demo project. In this application all parameters on the bus 'Status', 'InValues' and 'OutValues' are visualized, if the parameter 'ChkPt' is set.

Note: The block must be tested in interaction with the application software on the respective hardware of the application developer.

Data Panel GmbH

Fabrikstrasse 12
71570 Oppenweiler
GERMANY

☎Fon +49 7191 904 369-10

☎Fax +49 7191 904 369-99

info@data-panel.eu

www.data-panel.eu



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