

ADA-VERNO-GPIO

Hardware Description

Rev1 / 25.09.2014

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Rev	Date/Signature	Changes
1	25.09.14/We	Initial version

1 Introduction

The ADA-VERNO-GPIO is an adapter for the DIMM-Verno-Base. The purpose of this adapter board is to add the function of 3 push-buttons and 3 LEDs to the Verno-Base.

This manual describes how to use the adapter and the electrical characteristics.

2 How to use

You have to plug the ADA-VERNO-GPIO to connector J12 of DIMM-Verno-Base like it is shown in figure 1 below.

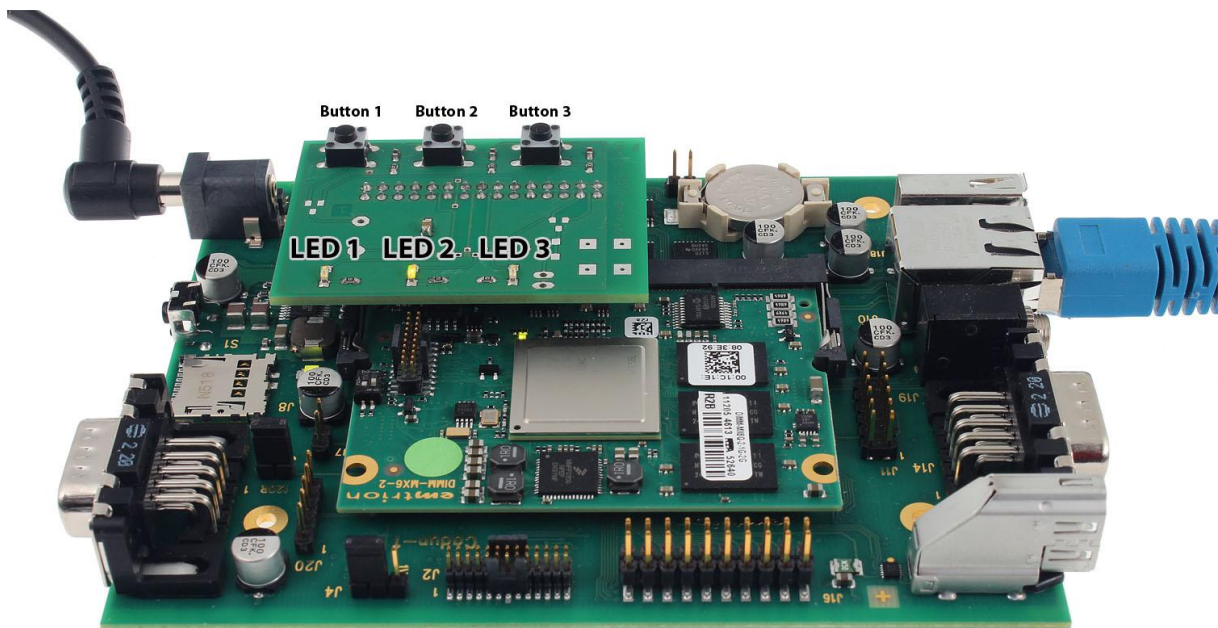


Figure 1: ADA-VERNO-GPIO connected to the Verno-Base

3 Pin Assignment for ADA-VERNO-GPIO

The table below shows the pin assignment for the ADA-VERNO-GPIO.

Verno-Base Pin on J12 ¹⁾	Verno-Base Signal	Verno-Base Pin direction at J12	ADA-VERNO-GPIO Pin on J1	ADA-VERNO-GPIO Signal
1	GND	-	1	GND
2	+3.3V	-	2	+3.3V
8	GPIO_2	Input	8	BUTTON ₁
10	GPIO_3	Output	10	LED ₁
11	GND	-	11	GND
12	GPIO_4	Input	12	BUTTON ₂
14	GPIO_5	Output	14	LED ₂
16	GPIO_6	Input	16	BUTTON ₃
18	GPIO_7	Output	18	LED ₃
20	GPIO_8	Output	20	BUZZER ²⁾
21	GND	-	21	GND
22	GPIO_9	Output	22	MOTOR ²⁾
27	GND	-	27	GND
28	+3.3V	-	28	+3.3V
30	+3.3V	-	30	+3.3V

¹⁾ Pins not shown in this table are not connected at ADA-VERNO-GPIO.

²⁾ Not equipped on ADA-VERNO-GPIO.

4 Pin functions

Function of the BUTTON-Signals (Inputs):

- Button is pressed -> Input signal is high
- Button is released -> Input signal is low

Function of the LED-Signals (Outputs):

- Output signal is high -> LED is turned on
- Output signal is low -> LED is turned off