



# **E-BASE-1020**

Hardware Description

2010 Oktober

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# Introduction

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# 1. Introduction

## 1.1. General remarks

First of all, we would like to congratulate you to the purchase of a high quality DEDITEC product.

Our products are being developed by our engineers according to quality requirements of high standard. Already during design and development we take care that our products have -besides quality- a long availability and an optimal flexibility.

### **Modular design**

The modular design of our products reduces the time and the cost of development. Therefore we can offer you high quality products at a competitive price.

### **Availability**

Because of the modular design of our products, we have to redesign only a module instead of the whole product, in case a specific component is no longer available.

## 1.2. Customer satisfaction

Our philosophy: a content customer will come again. Therefore customer satisfaction is in first place for us.

If by any chance, you are not content with the performance of our product, please contact us by phone or mail immediately.

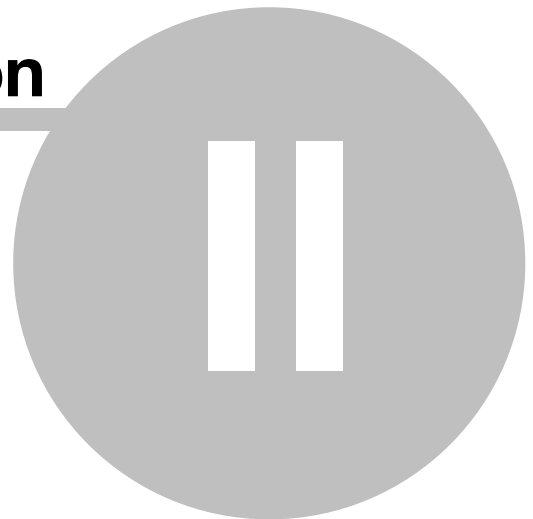
We take care of the problem.

## 1.3. Customer response

Our best products are co-developments together with our customers. Therefore we are thankful for comments and suggestions.

# Hardware Description

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## 2. Hardware Description

This DIN rail board is a small standalone pc, equipped with the E-CPU-800 module. It's qualified to execute more complex control systems, using ethernet, SD card modules or other USB Modules.

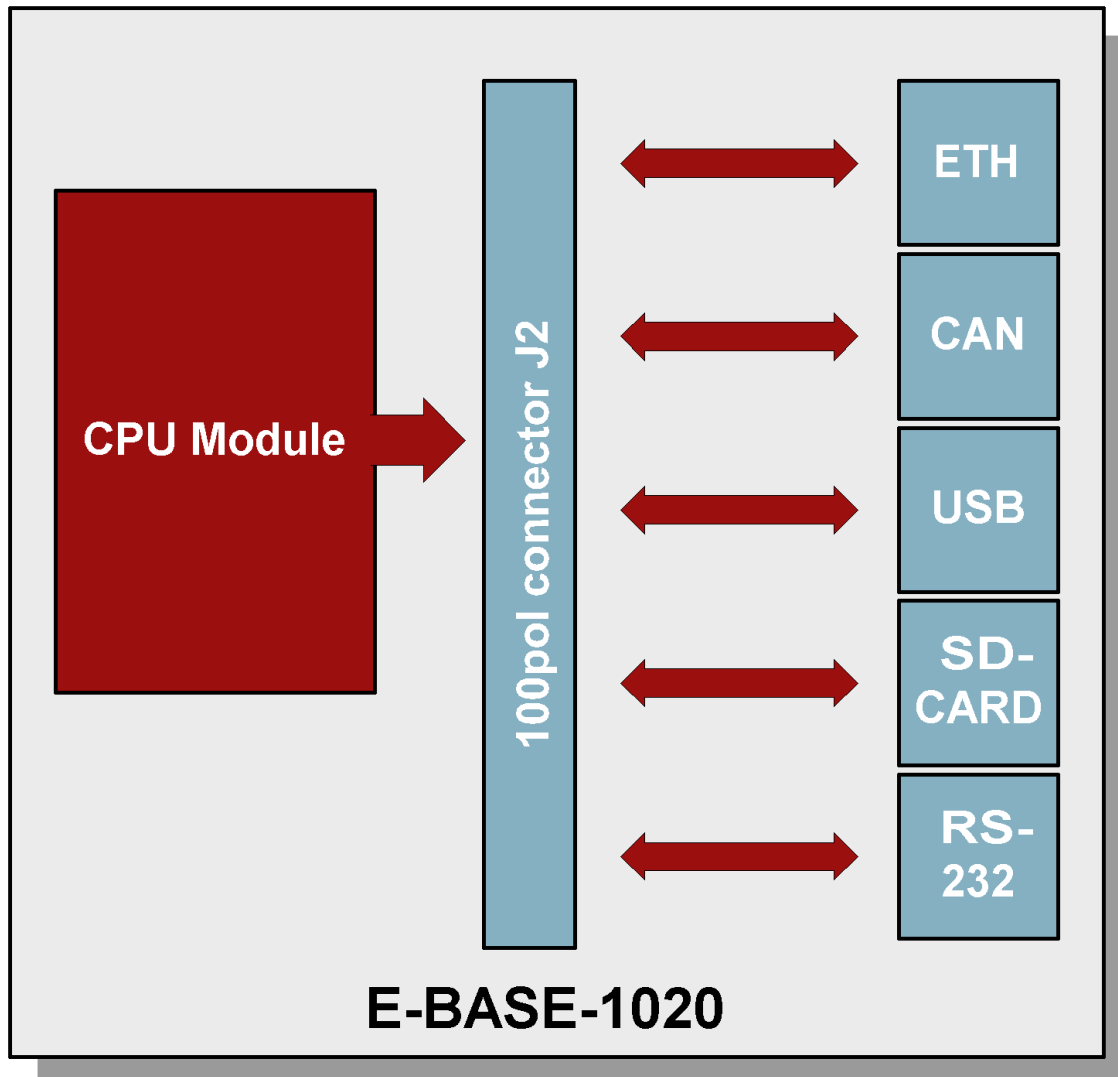
### 2.1. Technical data



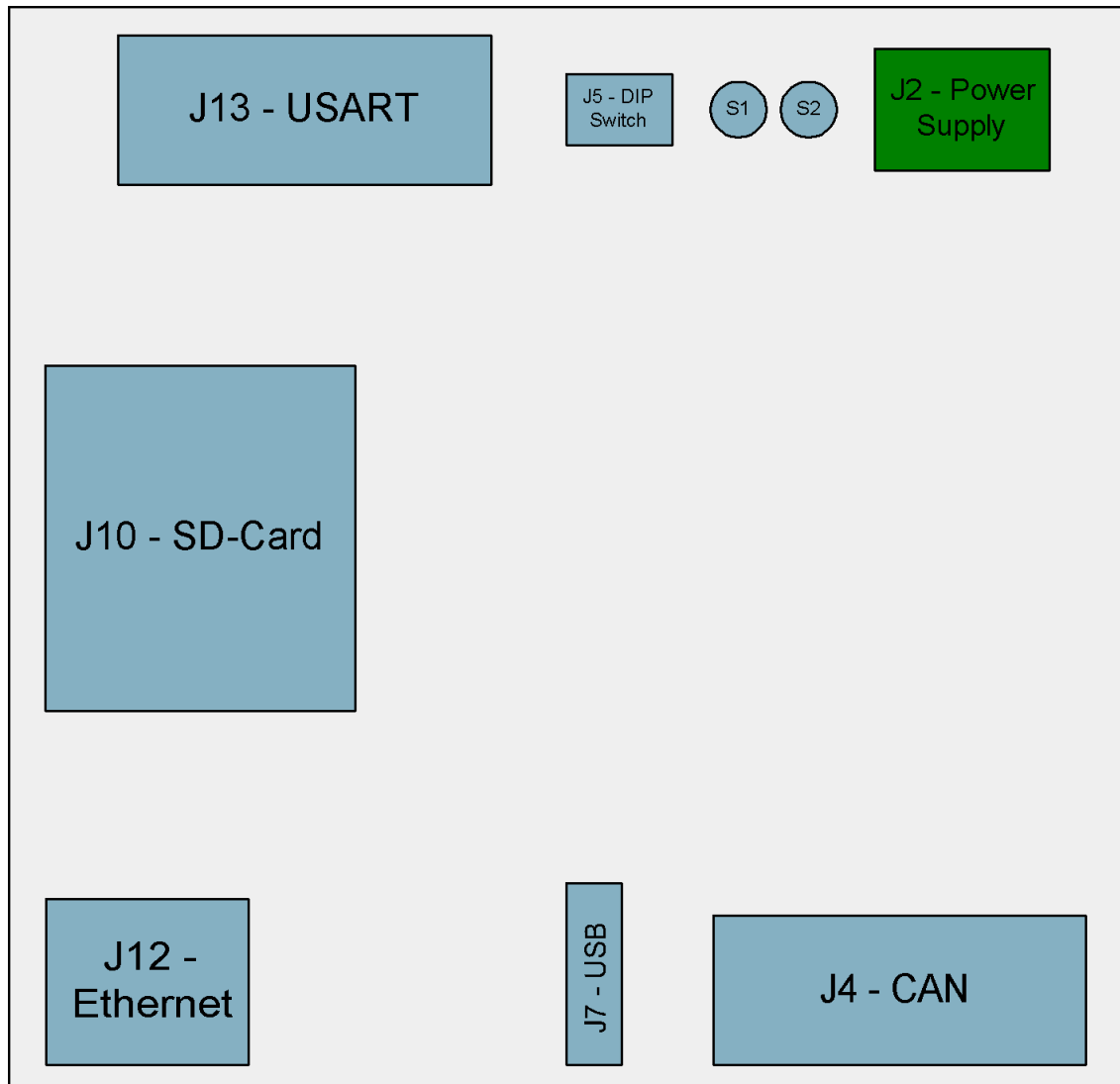
- Single Power Supply: 7V to 25V DC
- MCI (MultiMedia Card Interface) with SD-Card Slot
- 1x USB 2.0 Host Interface
- 10/100 Mbps Fast Ethernet
- 1x Serial Debug Port (multiplexed with USART)
- 1x USART
- 1x CAN Interface
- One LED for each 3,3V and 5V voltage feed
- Board Dimensions: 78x90x47mm (LxWxH)

## 2.2. Overview

### 2.2.1. Board overview



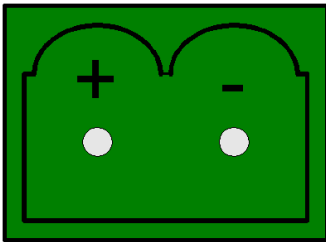
### 2.2.2. Connector overview



### 2.3. Power supply J2

The input voltage of the board is 7V to 25V DC and will be connected at clamp J2.

Typical current consumption at 10V is 95mA.

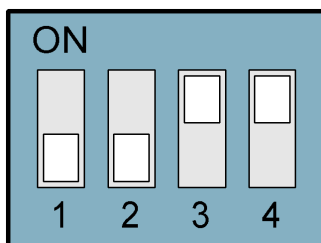


## 2.4. DIP switches J5 (Debug serial or USART)

Some pins of the debug port and the USART port are multiplexed. On header J5 you can choose either debug or USART.

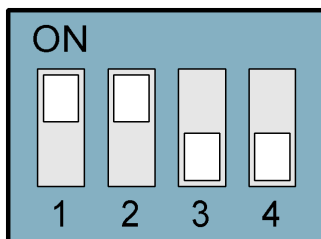
### 2.4.1. Debug serial

For using the debug port, place the DIP switches as following:



### 2.4.2. USART

For using the USART port, place the DIP switches as following:



## 2.5. Buttons

The two buttons S1 and S2 on the E-BASE-1020 module can be read out by the user.

# Appendix



## 3. Appendix

### 3.1. Ordering information

E-BASE-1020

Base-Board with E-CPU-800

## 3.2. Revisions

Rev 1.00	First issue
Rev 2.00	Design change

### **3.3. Copyrights and trademarks**

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