

# Product Change Notice - PCN-Verno-4\_v01en

---

| Rev | Date/Signature | Changes        |
|-----|----------------|----------------|
| 1   | 11.07.2012/Mt  | First Revision |

## 1 Product affected

| Product affected | No.   | Rev. | Replacement | Rev. |
|------------------|-------|------|-------------|------|
| Verno-2          | 11123 | R2A  | Verno-4     | R4A  |

## 2 Change 1 – USB Device

### 2.1 Key Characteristics of the Change

USB Device Type B connector J3 was replaced by an USB mini A/B connector J23.

### 2.2 Description of Change to the Customer

USB Device Type B connector J3 was replaced by an USB mini A/B connector J23.

### 2.3 Costumer Impact of Change and Recommended Action

The USB Device interface must be connected with an mini USB B cable instead an USB B cable.

## 3 Change 2 – Added POWER\_ON\_BASE signal

### 3.1 Key Characteristics of the Change

Added the signal POWER\_ON\_BASE on the SODIMM connector pin 135 and removed the signal 3V3 at that pin.

### 3.2 Description of Change to the Customer

With that signal the periphery power on the baseboard can be switched on, if the processor module supports that feature. More details are described in the Application Note Baseboard Design v003 on the emtrion support homepage.

<http://www.support.emtrion.de/doku.php?id=hw:dimconcept>

### 3.3 Costumer Impact of Change and Recommended Action

If the processor module supports that feature the periphery power supply is only switched on if the signal POWER\_ON\_BASE is high.

If the processor module doesn't support that feature, it has no influence.

## **4 Change 3 – Reset delay**

### **4.1 Key Characteristics of the Change**

A reset is only asserted if the reset button S1 is pressed longer than 2s.

### **4.2 Description of Change to the Customer**

A reset is only asserted if the reset button is pressed longer than 2 seconds. Immediately after pressing an interrupt (POWER\_IRQ) is asserted that the operating system can power down controlled, before a HW reset asserts.

### **4.3 Customer Impact of Change and Recommended Action**

For a reset the reset button S1 must be pressed longer than 2s.

## **5 Change 4 – Audio clock**

### **5.1 Key Characteristics of the Change**

The main clock for the audio codec now can be disabled.

### **5.2 Description of Change to the Customer**

The 12MHz audio clock AUDIO\_MCK can be disabled via the Verno GPIO Expander port 1-7. This can be useful if the 12MHz clock is not necessary.

### **5.3 Customer Impact of Change and Recommended Action**

Only important if the processor module doesn't support the 12MHz clock.

## **6 Change 5 – mechanical position of the connectors**

### **6.1 Key Characteristics of the Change**

The mechanical positions of some connectors are changed.

### **6.2 Description of Change to the Customer**

The mechanical position of the connectors J14, J19, J10, J18 and J15 has changed. The connector was J3 is replaced by J23. And J22 is new but not assembled.

### **6.3 Customer Impact of Change and Recommended Action**

The chassis must be changed, if needed.

## **7 Change 6 – Pin assignment Camera connector J2**

### **7.1 Key Characteristics of the Change**

The pin assignment of the camera connector J2 is changed.

## **7.2 Description of Change to the Customer**

Because of problems with the signal integrity the pin assignment of the camera connectors is changed.

## **7.3 Costumer Impact of Change and Recommended Action**

Please ask emtrion which cameras can be used with Verno Rev4. There are also adapters available to connect cameras with the old pin assignment.

# **8 Change 7 – capacitive Touch Interrupt**

## **8.1 Key Characteristics of the Change**

Added a capacitive touch interrupt signal.

## **8.2 Description of Change to the Customer**

The interrupt signal CAP\_TOUCH\_IRQ# is routed from the display connector pin 6 to the SODIMM connector pin 188. With that signal a capacitive touch can be used.

## **8.3 Costumer Impact of Change and Recommended Action**

A display with a capacitive touch can be used.