

# TEBF0808 Master CPLD

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## Overview

Firmware for PCB-Master CPLD with designator U17. First CPLD Device in Chain: LCMX02-1200HC

## Feature Summary

- FMC VADJ Power
- JTAG / FMC JTAG / PJTAG
- RESET/Enable Management
- LED
- RGPIO
- SD
- CAN
- USB
- DisplayPort

## Firmware Revision and supported PCB Revision

See Document Change History

# Product Specification

## Port Description

| Schematic /Souce Code Name | Direction | Pin | Description                  | PCB REV2 Exception |
|----------------------------|-----------|-----|------------------------------|--------------------|
| C_T1                       |           | 24  | / currently_not_used         | NC                 |
| C_T2                       |           | 26  | / currently_not_used         | NC                 |
| C_T3                       |           | 25  | / currently_not_used         | NC                 |
| C_TCK                      | in        | 131 | JTAG J28 (XMOD2) / FMC JTAG  |                    |
| C_TDI                      | in        | 136 | JTAG J28 (XMOD2) / FMC JTAG  |                    |
| C_TDO                      | out       | 137 | JTAG J28 (XMOD2) / FMC JTAG  |                    |
| C_TMS                      | in        | 130 | JTAG J28 (XMOD2) / FMC JTAG  |                    |
| CAN_FAULT                  | in        | 106 | CAN                          |                    |
| CAN_RX                     | in        | 107 | CAN                          |                    |
| CAN_S                      | out       | 105 | CAN                          |                    |
| CAN_TX                     | out       | 104 | CAN                          |                    |
| CLK_125MHZ / PHY_CLK       | in        | 70  | / currently_not_used         |                    |
| CON_NTRST                  |           | 117 | / currently_not_used         |                    |
| CON_RTCK / JTAG_RTCK       | out       | 125 | JTAG, Connector J30          |                    |
| CON_SRST / JTAG_SRST       | in        | 127 | JTAG, Connector J30          |                    |
| CON_TCK / JTAG_TCK         | in        | 122 | JTAG, Connector J30 / PJTAG0 |                    |
| CON_TDI / JTAG_TDI         | in        | 119 | JTAG, Connector J30 / PJTAG0 |                    |
| CON_TDO / JTAG_TDO         | out       | 126 | JTAG, Connector J30 / PJTAG0 |                    |
| CON_TMS / JTAG_TMS         | in        | 121 | JTAG, Connector J30 / PJTAG0 |                    |
| DIR_T1                     |           | 23  | / currently_not_used         | NC                 |
| DIR_T2                     |           | 28  | / currently_not_used         | NC                 |
| DIR_T3                     |           | 27  | / currently_not_used         | NC                 |
| DP_AUX_DE / DP_DE          | out       | 92  | Display Port                 |                    |
| DP_AUX_RX / DP_RX          | in        | 91  | Display Port                 |                    |
| DP_AUX_TX / DP_TX          | out       | 93  | Display Port                 |                    |
| DP_EN                      | out       | 77  | Display Port                 |                    |
| DP_TX_HPD /DP_HDP          | in        | 94  | Display Port                 |                    |
| ETH_RST                    | out       | 62  | Ethernet                     |                    |
| EX_IO1                     |           | 112 | PMOD / currently_not_used    |                    |
| EX_IO2                     |           | 113 | PMOD / currently_not_used    |                    |
| EX_IO3                     |           | 114 | PMOD / currently_not_used    |                    |
| EX_IO4                     |           | 115 | PMOD / currently_not_used    |                    |
| F2_EN                      |           | 19  | FAN J35 / currently_not_used | NC                 |
| F2PWM                      |           | 20  | FAN J35 / currently_not_used | NC                 |

|                  |       |     |                                                           |                         |
|------------------|-------|-----|-----------------------------------------------------------|-------------------------|
| F2SENSE          |       | 21  | FAN J35 / <b>currently_not_used</b>                       | NC                      |
| FMC_CLK_DIR      | in    | 73  | FMC                                                       |                         |
| FMC_TCK          | out   | 95  | FMC                                                       |                         |
| FMC_TDI          | out   | 96  | FMC                                                       |                         |
| FMC_TDO          | in    | 97  | FMC                                                       |                         |
| FMC_TMS          | out   | 98  | FMC                                                       |                         |
| FMC_VID0         | out   | 139 | FMC VADJ Power Selection                                  |                         |
| FMC_VID1         | out   | 140 | FMC VADJ Power Selection                                  |                         |
| FMC_VID2         | out   | 141 | FMC VADJ Power Selection                                  |                         |
| GND              |       | 84  | REV03 unconnected / <b>currently_not_used</b>             | USB_TRST, other USB HUB |
| HDIO_SC10 / SC10 | inout | 60  | FPGA / DP_RX or 'Z'                                       |                         |
| HDIO_SC11 / SC11 | in    | 59  | FPGA / DP_DE                                              |                         |
| HDIO_SC12 / SC12 | out   | 58  | FPGA / DP_HPD                                             |                         |
| HDIO_SC13 / SC13 | out   | 57  | FPGA / RGPIO TX                                           |                         |
| HDIO_SC14 / SC14 | in    | 56  | FPGA / RGPIO RX                                           |                         |
| HDIO_SC15 / SC15 | in    | 55  | FPGA / RGPIO CLK                                          |                         |
| HDIO_SC16 / SC16 | in    | 54  | FPGA / CAN_S                                              |                         |
| HDIO_SC17 / SC17 | in    | 52  | FPGA / XMOD LED                                           |                         |
| HDIO_SC18 / SC18 | in    | 68  | FPGA / CAN_TX                                             |                         |
| HDIO_SC19 / SC19 | out   | 69  | FPGA / CAN_RX                                             |                         |
| I2C_RST          | out   | 61  | I2C                                                       |                         |
| JTAGENB          |       | 120 | external Pin for CPLD Firmware Update                     |                         |
| LED_1A / JLED1   | out   | 109 | USB3.0 LED Jellow                                         |                         |
| LED_2A / JLED2A  | out   | 111 | USB3.0 LED Green/Orange                                   |                         |
| LED_2B / JLED2B  | out   | 110 | USB3.0 LED Green/Orange                                   |                         |
| MIO26            | in    | 41  | MIO / PJTAG                                               |                         |
| MIO27            | in    | 40  | MIO / PJTAG                                               |                         |
| MIO28            | in    | 39  | MIO / PJTAG                                               |                         |
| MIO29            | in    | 38  | MIO / PJTAG                                               |                         |
| OCLK_EN / OSC_EN | out   | 74  | Programmable Oscillator U45                               |                         |
| PHY_CONFIG       | out   | 65  | ETH PHY                                                   |                         |
| PHY_LED0         | in    | 67  | ETH PHY                                                   |                         |
| PHY_LED1         | in    | 86  | ETH PHY                                                   |                         |
| PHY_LED2         | in    | 85  | ETH PHY                                                   |                         |
| SC_CLK0 / CLK0   | in    | 76  | / <b>currently_not_used</b>                               | SC_CLK_P                |
| SC_CLK1 / CLK1   | in    | 75  | / <b>currently_not_used</b>                               | SC_CLK_N                |
| SC_IO0 / X0      | in    | 50  | Master-Slave SC-Communication / Power Reset               |                         |
| SC_IO1 / X1      | in    | 49  | Master-Slave SC-Communication / Power Reset               |                         |
| SC_IO2 / X2      | in    | 48  | Master-Slave SC-Communication / <b>currently_not_used</b> |                         |
| SC_IO3 / X3      | in    | 47  | Master-Slave SC-Communication / <b>currently_not_used</b> |                         |

|                      |     |     |                                                                              |                        |
|----------------------|-----|-----|------------------------------------------------------------------------------|------------------------|
| SC_IO4 / X4          | out | 45  | Master-Slave SC-Communication / SD WP to Slave CPLD                          |                        |
| SC_IO5 / X5          | out | 44  | Master-Slave SC-Communication / <b>currently_not_used</b>                    |                        |
| SC_IO6 / X6          | out | 43  | Master-Slave SC-Communication / Sanity check to other CPLD (FMC VADJ Enable) |                        |
| SC_IO7 / X7          | out | 42  | Master-Slave SC-Communication / Sanity check to other CPLD (FMC VADJ Enable) |                        |
| SC_IO8               |     | 22  | Master-Slave SC-Communication / <b>currently_not_used</b>                    | NC                     |
| SC_SCL / SCL         | in  | 14  | I2C Mux U27 / <b>currently_not_used</b>                                      |                        |
| SC_SDA / SDA         | in  | 13  | I2C Mux U27 / <b>currently_not_used</b>                                      |                        |
| SC2_SW3 / SW3        | in  | 6   | DIP-Switch S5-3                                                              |                        |
| SC2_SW4 / SW4        | in  | 5   | DIP-Switch S5-4                                                              |                        |
| SD_WP                | in  | 100 | MMC SD                                                                       |                        |
| SFP_LED1 / SFP_LED0  | out | 81  | SFP                                                                          |                        |
| SFP_LED2 / SFP_LED1  | out | 82  | SFP                                                                          |                        |
| SFP_LED3 / SFP_LED2  | out | 78  | SFP                                                                          |                        |
| SFP_LED4 / SFP_LED3  | out | 83  | SFP                                                                          |                        |
| SFP1_LOS             |     | 32  | SFP / <b>currently_not_used</b>                                              | NC, controlled by FPGA |
| SFP1_TX_DIS          | out | 33  | SFP                                                                          | NC, controlled by FPGA |
| SFP2_LOS             |     | 35  | SFP / <b>currently_not_used</b>                                              | NC, controlled by FPGA |
| SFP2_TX_DIS          | out | 34  | SFP                                                                          | NC, controlled by FPGA |
| STAT_LED0 / LED0     |     | 99  | LED D4 Green                                                                 |                        |
| STAT_LED1 / LED1     |     | 128 | LED D1 Red                                                                   |                        |
| USB0_RST / USB_RST   | out | 71  | USB (U9) PHY Reset                                                           | USB PHY and HUB Reset  |
| USBH_LED_G3          |     | 11  | USB Hub (U4) / <b>currently_not_used</b>                                     | NC, other USB HUB      |
| USBH_LED_G4          |     | 12  | USB Hub (U4) / <b>currently_not_used</b>                                     | NC, other USB HUB      |
| USBH_LED_SS1         |     | 9   | USB Hub (U4) / <b>currently_not_used</b>                                     | NC, other USB HUB      |
| USBH_LED_SS2 / dummy | out | 133 | USB Hub (U4) Dummy Signal / <b>currently_not_used</b>                        | NC, other USB HUB      |
| USBH_LED_SS3         |     | 132 | USB Hub (U4) / <b>currently_not_used</b>                                     | NC, other USB HUB      |
| USBH_LED_SS4         |     | 138 | USB Hub (U4) / <b>currently_not_used</b>                                     | NC, other USB HUB      |
| USBH_MODE0           | out | 142 | USB Hub (U4)                                                                 | NC, other USB HUB      |
| USBH_MODE1           | out | 143 | USB Hub (U4)                                                                 | NC, other USB HUB      |
| USBH_RST             | out | 10  | USB Hub (U4)                                                                 | NC, other USB HUB      |
| XMOD1_A              |     | 3   | J28 (XMOD 2) / <b>currently_not_used</b>                                     |                        |
| XMOD1_B              |     | 2   | J28 (XMOD 2) / <b>currently_not_used</b>                                     |                        |
| XMOD1_E / XMOD_E     | out | 4   | J28 (XMOD 2 LED)                                                             |                        |
| XMOD1_G / XMOD_G     | in  | 1   | J28 (XMOD 2 Button)                                                          |                        |

## Functional Description

### JTAG

JTAGENB set carrier board CPLD into the chain for firmware update. For Update set DIP S4-3 to ON.

FMC JTAG is connected to XMOD2 JTAG. Set DIP S4-3 to OFF for FMC access.

PJTAG (MIO29..26) is connected to JTAF Pinheader J30.

## Power

FMC VADJ is 1.8V if S5-4 is ON else 1.2V.

## Reset

Main Reset is send by Slave CPLD via X0, X1 Pins.

USB PHY hold ~0,6s after Main Reset or XMOD\_G Reset or inv.RGPIO Bus Pin 0 (if active).

USB HUB hold ~0,25s after Main Reset or XMOD\_G Reset or inv. RGPIO Bus Pin 0 (if active). Long delay is a BUGFIX: is currently need to start Linux before Reset is disabled.

I2C Reset is Main Reset or inv. RGPIO Bus Pin 2 (if active).

ETH Reset is Main Reset or inv. RGPIO Bus Pin 3 (if active).

## Enable

FMC VADJ Enable is set from Slave CPLD via Saity Check (X6, X7).

SFP1 and SFP2 are always enabled.

Oscillator U45 is enabled

## USB

USB Hub Device Operation Mode (USBH\_MODEx Pins) are set to internal ROM configuration. Can be controlled by RGPIO Bus Pin 4 and 5.

## ETH

PHY Address is 1.

## Display Port

SC10 is controlled by DP\_RX when SC11 is zero else high impedance state. DP\_TX controlled by SC10 and DP\_DE controlled by SC11. SC12 is controlled by DP\_HPD.

## CAN

CAN\_TX sourced by SC18.

SC19 sourced by CAN\_RX.

CAN\_S sourced by S16.

## SD

SD WP is forwarded to Slave CPLD.

## RGPIO

| RGPIO Pin to FPGA | Value               |
|-------------------|---------------------|
| 0                 | SW3                 |
| 1                 | SW4                 |
| 2                 | SD_WP               |
| 3                 | XMOD_G              |
| 4                 | '0'                 |
| 5                 | '0'                 |
| 6                 | '0'                 |
| 7                 | '0'                 |
| 8                 | CAN_FAULT           |
| 9                 | PHY_LED0            |
| 10                | PHY_LED1            |
| 11                | PHY_LED2            |
| 12                | FMC_TDO             |
| 13                | FMC_CLKDIR          |
| 14                | JTAG_TRST           |
| 15                | JTAG_SRST           |
| 16                | '0'                 |
| 17                | '0'                 |
| 18                | '0'                 |
| 19                | DP_HPD              |
| 20                | SDA                 |
| 21                | SCL                 |
| 22-23             | unused zero         |
| 24-27             | reserved            |
| 28-31             | Interface detection |

| RGPIO Pin from FPGA | Value          |
|---------------------|----------------|
| 0                   | not USB_RST    |
| 1                   | not USBH_RST   |
| 2                   | not I2C_RST    |
| 3                   | not ETH_RST    |
| 4                   | not USBH_MODE0 |
| 5                   | not USBH_MODE1 |
| 6                   | LED0           |

|       |                     |
|-------|---------------------|
| 7     | LED1                |
| 8     | SFP_LED0            |
| 9     | SFP_LED1            |
| 10    | SFP_LED2            |
| 11    | SFP_LED3            |
| 12    | JLED1               |
| 13    | JLED2A              |
| 14    | JLED2B              |
| 15-23 | unused              |
| 24-27 | reserved            |
| 28-31 | Interface detection |

## LED

| Name           | Description                                                                                                                      |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| LED0 D4 Green  | RGPIO (6) when active else USB HUB RSTN                                                                                          |
| LED1 D1 Red    | RGPIO (7) when active else Main Reset from Slave CPLD                                                                            |
| SFP_LED0 Red   | RGPIO (8) when active else blinking when PCB power is on and reset Button is pressed else off                                    |
| SFP_LED1 Green | RGPIO (9) when active else blinking when PCB power is on and reset Button is pressed else off                                    |
| SFP_LED2 Red   | RGPIO (10) when active else blinking when PCB power is on and reset Button is pressed else off                                   |
| SFP_LED3 Green | RGPIO (11) when active else blinking when PCB power is on and reset Button is pressed else off                                   |
| JLED1 Yellow   | RGPIO (12) when active else blinking when PCB power is on and reset Button is pressed else not PHY_LED0 when X1 is zero else off |
| JLED2A Green   | RGPIO (13) when active else blinking when PCB power is on and reset Button is pressed else not PHY_LED1 when X1 is zero else on  |
| JLED2B Orange  | RGPIO (14) when active else blinking when PCB power is on and reset Button is pressed else off                                   |
| XMOD_E Red     | Blinking when Main Power Reset else SC17                                                                                         |

\*Blinking: ~1,5Hz

## Appx. A: Change History

### Revision Changes

CPLD REV05 to REV06

- BUGFIX: renamed SC19 to SC17
- Connect FMC JTAG to XMOD2 JTAG

- Connect PJTAG0 (MIO29..26) to JTAG Pin Header J30
- Connect CAN to PL
- RGPIO Pin changes

CPLD REV04 to REV05

- SD WP
- XMOD LED access over PL

Older Revision (PCB REV03) to CPLD REV04

- Fix USB HUB Mode default state over RGPIO
- Invert JLED2B over RGPIO

Older Revision (PCB REV02) to CPLD REV04

- Add all functionality from older Revision (PCB REV03)

## Document Change History

To get content of older revision got to "Change History" of this page and select older document revision number.

| Date | Document Revision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CPLD Firmware Revision | Supported PCB Revision                 | Authors                                                                                                                                       | Description                                                                 |
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|      | <div>Error rendering macro 'page-info'</div> <div>Ambiguous method overloading for method jdk.<br/>proxy279.\$Proxy4022#hasContentLevel<br/>Permission. Cannot resolve which method to invoke for [null, class java.lang.String, class com.atlassian.confluence.pages.Page] due to overlapping prototypes between:<br/>[interface com.atlassian.confluence.user.ConfluenceUser, class java.lang.String, class com.atlassian.confluence.core.ContentEntityObject] [interface com.atlassian.user.User, class java.lang.String, class com.atlassian.confluence.core.ContentEntityObject]</div> <div> Unknown macro: 'metadata'</div> | REV06                  | (REV02 Special Firmware!), REV03,REV04 | <div>Error rendering macro 'page-info'</div> <div>Ambiguous method overloading for method jdk.<br/>proxy279.\$Proxy4022#hasContentLevel</div> | <ul style="list-style-type: none"><li>• small Update Pinout Table</li></ul> |

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|------------|------|-------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 2017-10-18 | v.25 | REV06 | (REV02 Special Firmware!), REV03,REV04 | John Hartfiel                                                                                                              | <ul style="list-style-type: none"><li>Revision 06 finished</li></ul>                           |
| 2017-06-20 | v.23 | REV05 | (REV02 Special Firmware!), REV03,REV04 | John Hartfiel                                                                                                              | <ul style="list-style-type: none"><li>Document Bugfix, XMOD LED is connected to SC17</li></ul> |
| 2017-06-12 | v.22 | REV05 | (REV02 Special Firmware!), REV03,REV04 | John Hartfiel                                                                                                              | <ul style="list-style-type: none"><li>Port description update</li></ul>                        |
| 2017-06-09 | v.21 | REV05 | (REV02 Special Firmware!), REV03,REV04 | John Hartfiel                                                                                                              | <ul style="list-style-type: none"><li>Revision 05 finished</li></ul>                           |
| 2017-06-08 | v.17 | REV04 | (REV02 Special Firmware!), REV03,REV04 | John Hartfiel                                                                                                              | <ul style="list-style-type: none"><li>document style update</li></ul>                          |
| 2017-03-10 | v.15 | REV04 | (REV02 Special Firmware!), REV03,REV04 | John Hartfiel                                                                                                              | <ul style="list-style-type: none"><li>Revision 04 finished</li></ul>                           |
| 2016-12-14 | v.1  | ---   |                                        | <div>Error rendering macro 'page-info' Ambiguous method overriding for method jdk.proxy2 79.\$Proxy402 2#has Content</div> | <ul style="list-style-type: none"><li>Initial release</li></ul>                                |

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## Appx. B: Legal Notices

### Data Privacy

Please also note our data protection declaration at <https://www.trenz-electronic.de/en/Data-protection-Privacy>

### Document Warranty

The material contained in this document is provided "as is" and is subject to being changed at any time without notice. Trenz Electronic does not warrant the accuracy and completeness of the materials in this document. Further, to the maximum extent permitted by applicable law, Trenz Electronic disclaims all warranties, either express or implied, with regard to this document and any information contained herein, including but not limited to the implied warranties of merchantability, fitness for a particular purpose or non infringement of intellectual property. Trenz Electronic shall not be liable for errors or for incidental or consequential damages in connection with the furnishing, use, or performance of this document or of any information contained herein.

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## Technology Licenses

The hardware / firmware / software described in this document are furnished under a license and may be used /modified / copied only in accordance with the terms of such license.

## Environmental Protection

To confront directly with the responsibility toward the environment, the global community and eventually also oneself. Such a resolution should be integral part not only of everybody's life. Also enterprises shall be conscious of their social responsibility and contribute to the preservation of our common living space. That is why Trenz Electronic invests in the protection of our Environment.

## REACH, RoHS and WEEE

### REACH

Trenz Electronic is a manufacturer and a distributor of electronic products. It is therefore a so called downstream user in the sense of [REACH](#). The products we supply to you are solely non-chemical products (goods). Moreover and under normal and reasonably foreseeable circumstances of application, the goods supplied to you shall not release any substance. For that, Trenz Electronic is obliged to neither register nor to provide safety data sheet. According to present knowledge and to best of our knowledge, no [SVHC \(Substances of Very High Concern\) on the Candidate List](#) are contained in our products. Furthermore, we will immediately and unsolicited inform our customers in compliance with REACH - Article 33 if any substance present in our goods (above a concentration of 0,1 % weight by weight) will be classified as SVHC by the [European Chemicals Agency \(ECHA\)](#).

### RoHS

Trenz Electronic GmbH herewith declares that all its products are developed, manufactured and distributed RoHS compliant.

### WEEE

Information for users within the European Union in accordance with Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003 on waste electrical and electronic equipment (WEEE).

Users of electrical and electronic equipment in private households are required not to dispose of waste electrical and electronic equipment as unsorted municipal waste and to collect such waste electrical and electronic equipment separately. By the 13 August 2005, Member States shall have ensured that systems are set up allowing final holders and distributors to return waste electrical and electronic equipment at least free of charge. Member States shall ensure the availability and accessibility of the necessary collection facilities. Separate collection is the precondition to ensure specific treatment and recycling of waste electrical and electronic equipment and is necessary to achieve the chosen level of protection of human health and the environment in the European Union. Consumers have to actively contribute to the success of such collection and the return of waste electrical and electronic equipment. Presence of hazardous substances in electrical and electronic equipment results in potential effects on the environment and human health. The symbol consisting of the crossed-out wheeled bin indicates separate collection for waste electrical and electronic equipment.

Trenz Electronic is registered under WEEE-Reg.-Nr. DE97922676.

#### Error rendering macro 'page-info'

Ambiguous method overloading for method `jdk.proxy279.$Proxy4022#hasContentLevelPermission`. Cannot resolve which method to invoke for `[null, class java.lang.String, class com.atlassian.confluence.pages.Page]` due to overlapping prototypes between: `[interface com.atlassian.confluence.user.ConfluenceUser, class java.lang.String, class com.atlassian.confluence.core.ContentEntityObject]` `[interface com.atlassian.user.User, class java.lang.String, class com.atlassian.confluence.core.ContentEntityObject]`

