# ICM\_1 to ICM\_2, changes

## ICM\_1 parts, removed

|  |  |  |  |
| --- | --- | --- | --- |
| **RefDes** | **old Value** | **new value** | **Remark** |
| R48 | 47R 0402 |  |  |
| R53 | 47R 0402 |  |  |
| R54 | 47R 0402 |  |  |
| R55 | 47R 0402 |  |  |
| R17 | 47R 0402 |  |  |
| R21 | 47R 0402 |  |  |
| R56 | 4k7 0402 |  |  |
| R57 | 4k7 0402 |  |  |
| R58 | 4k7 0402 |  |  |
| R59 | 4k7 0402 |  |  |
| V3 | PRTR5V0U4D |  |  |

## ICM\_1 parts, value changed

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **old RefDes** | **old Value** | **new RefDes** | **new value** | **Remark** |
| L12 | 27nH 0402 | R76 | 4R7 0603 | or 0402 |
| L13 | 27nH 0402 | R75 | 4R7 0603 | or 0402 |
| R17 | 47R 0402 | L19 | 470R 0.1% 0603 |  |
| R21 | 47R 0402 | L20 | 470R 0.1% 0603 |  |
| R7 | 47R 0402 | R7 | 0R 0402 |  |
| R20 | 47R 0402 | R20 | 0R 0402 |  |
| C39 | 100p 0402 | C39 | - | do not mount |
| C40 | 100p 0402 | C40 | 47p 0402 1% | COG |
| R33 | 47R 0402 | R33 | 220R 0402 |  |
| R37 | 47R 0402 | R37 | 220R 0402 |  |
| R38 | 47R 0402 | R38 | 220R 0402 |  |
| R39 | 47R 0402 | R39 | 220R 0402 |  |
| R43 | 2K 0402 | R43 | 4k7 1% 0402 |  |
| R44 | 2K 0402 | R43 | 4k7 1% 0402 |  |
| U2 | IS25WP128-JLLE | U2 | IS25WP128-JKLE | 8x6 -> 6x5 mm |

## ICM\_2 parts, added

|  |  |  |
| --- | --- | --- |
| **RefDes** | **old Value** | **Remark** |
| R75 | 4R7 0402 | comm. DAC, instead of 27nH |
| R76 | 4R7 0402 | comm. DAC, instead of 27nH |
| R77 | 330R 0402 | DONE pullup, red LED, V14 current |
| R78 | 330R 0402 | TERM\_ENA, K1 input LED current limiter |
| R79 | 130R 0402 | next to R33, R37 |
| R80 | 130R 0402 | next to R38, R39 |
| R81 | 130R 0402 | next to R84, R85 |
| R82 | 130R 0402 | next to R86, R87 |
| R90 | 130R 0402 | next to R88, R89 |
| R83 | 1k 0402 | PCA\_ID pullup |
| R84 | 220R 0402 | next to U1 |
| R85 | 220R 0402 | next to U1 |
| R86 | 220R 0402 | next to U1 |
| R87 | 220R 0402 |  |
| R88 | 220R 0402 | next to U1 |
| R89 | 220R 0402 |  |

## net names / functions changed

|  |  |  |
| --- | --- | --- |
| **ICM\_1** | **ICM\_2** | **Remark** |
| COM\_WP\_P | WP\_P | P1-3 |
| COM\_WP\_N | WP\_N | P1-5 |
| USB\_DP | USB\_D\_P | P1-9 |
| USB\_DN | USB\_D\_N | P1-11 |
| MB\_ADR\_0 | WP\_ADR\_0 | P1-2 |
| MB\_ADR\_1 | WP\_ADR\_1 | P1-4 |
| MB\_ADR\_2 | WP\_ADR\_2 | P1-6 |
|  |  |  |
|  |  |  |
| MB\_GPIO\_0 | CAL\_TRIG\_P | P2- 8, U1-pins: H4 (3.3V) -> M11 (1.8V) |
| MB\_GPIO\_1 | CAL\_TRIG\_N | P2- 9, U1-pins: H3 (3.3V) -> M12 (1.8V) |
| MB\_GPIO\_2 | CAL\_TIME\_P | P2-12, U1-pins: H2 (3.3V) -> F13 (1.8V) |
| MB\_GPIO\_3 | CAL\_TIME\_N | P2-11, U1-pins: H1 (3.3V) -> E13 (1.8V) |
|  |  |  |
| FPGA\_GPIO\_2 | MCU\_nRST | P2-12 |
| FPGA\_GPIO\_3 | MCU\_USART\_CK | P2-11 |
|  |  |  |
| STM\_BOOT | MCU\_BOOT |  |
| STM\_USART\_TX | MCU\_USART\_TX |  |
| STM\_USART\_RX | MCU\_USART\_RX |  |
| STM\_USART\_RTS | MCU\_USART\_RTS |  |
| STM\_USART\_CTS | MCU\_USART\_CTS |  |
| INTLK\_ENA | MBPWR\_EN | P2-22 |
| MB\_ID | PCA\_ID |  |
| USB\_3V3OUT | LED\_VCC | connection changed here |
| INTLK\_ENA | MP\_PWREN | P2-23 |

## ICM\_2 net name unification with D-Egg / PDOM schematic names

|  |  |  |
| --- | --- | --- |
| **ICM\_2** | **D-Egg / PDOM** | **Remark** |
| COM\_WP\_P | WP\_P | P1-3 |
| COM\_WP\_N | WP\_N | P1-5 |
|  |  |  |
| USB\_DP | USB\_D\_P | P1-9 |
| USB\_DM | USB\_D\_N | P1-11 |
| USBDM | USBDN |  |
|  |  |  |
| MB\_ADR\_0 | WP\_ADR\_0 | P1-2 |
| MB\_ADR\_1 | WP\_ADR\_1 | P1-4 |
| MB\_ADR\_2 | WP\_ADR\_2 | P1-6 |
| MB\_ADR0 | WP\_ADR0 |  |
| MB\_ADR1 | WP\_ADR1 |  |
| MB\_ADR2 | WP\_ADR2 |  |
|  |  |  |
| FPGA\_GPIO\_2 | MCU\_nRST | P2-12 |
| FPGA\_GPIO\_3 | MCU\_USART\_CK | P2-11 |
|  |  |  |
| STM\_BOOT | MCU\_BOOT | P2-18 |
| STM\_USART\_TX | MCU\_USART\_TX | P2-19 |
| STM\_USART\_RX | MCU\_USART\_RX | P2-20 |
| STM\_USART\_RTS | MCU\_USART\_RTS | P2-21 |
| STM\_USART\_CTS | MCU\_USART\_CTS | P2-22 |
|  |  |  |
| INTLK\_ENA | MP\_PWREN | P2-23 |
|  |  |  |