C3_LED_P8_LED0
C2_LED_P7_LED0
EE_DOUT_C1_LED_P6_LED0
EE_CLK_C0_LED_P1_LED0_FLOW

RED GREEN   RED GREEN   RED GREEN   RED GREEN

D5   D6   D7   D8

R1_LED_P2_LED0   150R   R4   R1_LED_P2_LED0_R
R0_LED_P1_LED0   150R   R5   R0_LED_P1_LED0_R

PORT 1   PORT 2   PORT 3   PORT 4

J7
ERFB-030-05.0-S-DV-K-TR

Sheet: Transformer1G
File: Transformer1G.sch

P1A_P
P1A_N
P1B_P
P1B_N
P1C_P
P1C_N
P1D_P
P1D_N

1A_N
1A_P
1B_N
1B_P
1D_N
1D_P
1C_P
1C_N

J4
Conn-8P   PORT 1 - 1G

P2A_P
P2A_N
P2B_P
P2B_N
P2C_P
P2C_N
P2D_P
P2D_N

2A_N
2A_P
2B_N
2B_P
2D_N
2D_P
2C_P
2C_N

J5
Conn-8P   PORT 2 - 1G

P3A_P
P3A_N
P3B_P
P3B_N
P3C_P
P3C_N
P3D_P
P3D_N

3A_N
3A_P
3B_N
3B_P
3D_N
3D_P
3C_P
3C_N

J8
Conn-8P   PORT 3 - 1G

P4A_P
P4A_N
P4B_P
P4B_N
P4C_P
P4C_N
P4D_P
P4D_N

4A_N
4A_P
4B_N
4B_P
4D_N
4D_P
4C_P
4C_N

J9
Conn-8P   PORT 4 - 1G

GND1
P1A_P   SE_SCLK
P1A_N   GND
P1B_P   P0RX_P
P1B_N   P0RX_N
P1C_P   P0TX_P
P1C_N   P0TX_N
P1D_N   GND
P1D_P
GND   R0_LED_P1_LED0
P2A_P   R1_LED_P2_LED0
P2A_N   R3_LED_P3_LED0
P2B_N   R4_LED_P5_LED0
P2B_P   EE_CLK_C0_LED_P1_LED0_FLOW
P2C_P   EE_DOUT_C1_LED_P6_LED0
P2C_N   C2_LED_P7_LED0
P2D_N   C3_LED_P8_LED0
P2D_P
P3A_P   P4A_P
P3B_N   P4A_N
P3B_P   P4B_N
P3C_P   P4B_P
P3C_N   P4C_N
P3D_N   P4C_P
P3D_P   P4D_N
GND   P4D_P
GND   GND
VBUS

J17
Conn-6P
1   EE_CLK_C0_LED_P1_LED0_FLOW
2   EE_DOUT_C1_LED_P6_LED0
3   C2_LED_P7_LED0
4   C3_LED_P8_LED0
5   R0_LED_P1_LED0_R
6   R1_LED_P2_LED0_R

+3V3
J1
1
2
3   MDIO_CPU
4   MDC_CPU
Conn-4P
GND

+3V3
J18
1
2
3   USART2_TX
4   USART2_RX
Conn-4P
GND

J13
ERFB-030-05.0-S-DV-K-TR

GND   GND
P10TX_N   P8D_N
P10TX_P   P8D_P
GND   P8C_N
P10RX_N   P8C_P
P10RX_P   P8B_N
GND   P8B_N
P9TX_N   P8A_N
P9TX_P   P8A_P
GND   GND
P9RX_N   P7D_P
P9RX_P   P7D_N
GND   P7C_N
Eth_RST   P7C_P
USART2_RX   P7B_N
USART2_TX   P7B_P
MDC_CPU   P7A_N
MDIO_CPU   P7A_P
GND   GND
P5D_P   P6D_P
P5D_N   P6D_N
P5C_N   P6C_N
P5C_P   P6C_P
P5B_P   P6B_P
P5B_N   P6B_N
P5A_N   P6A_N
P5A_P   P6A_P
GND   GND
+3V3   GND

TP3

R75   D19
1K   GREEN
+3V3   GND
3v3 indicator (indicate UbiSwitch is plugged)

R7
DNI
Q1
SI2337DS   VBUS

6.5 to 60V
J16
1
2
3
4
Conn-4P
D12
SMAJ54CA
SMA
D11
12V
R8
56K
1%
0402
GND

H1 H2 H3 H4

CE SYM1
Logo_CE

VBUS   +3V3   3V3_SFP   PWR_FLAG

PWR_FLAG   PWR_FLAG   PWR_FLAG   GND

Sheet: /
File: UbiBaseBoardMiniRevA.sch
Title: UbiBaseboardMini
Size: A2   Date: 2023-07-09   Rev: A
KiCad E.D.A. kicad (5.1.7)-1   Id: 1/2

P1A_N T3 GND C3 0.1uF 01A_N L3 1A_N 01A_P 1A_P CMC-800R
P1A_P SM453229-381N7Y R11 75R

P1B_N T1 GND C1 0.1uF 01B_N L1 1B_N 01B_P 1B_P CMC-800R
P1B_P SM453229-381N7Y R9 75R

P1C_P T5 GND C5 0.1uF 01C_P L5 1C_P 01C_N 1C_N CMC-800R
P1C_N SM453229-381N7Y R13 75R

P1D_P T7 GND C7 0.1uF 01D_P L7 1D_P 01D_N 1D_N CMC-800R
P1D_N SM453229-381N7Y R15 75R

C9 1nF/2kV GNDPWR

P2A_N T4 GND C4 0.1uF 02A_N L4 2A_N 02A_P 2A_P CMC-800R
P2A_P SM453229-381N7Y R12 75R

P2B_P T2 GND C2 0.1uF 02B_P L2 2B_P 02B_N 2B_N CMC-800R
P2B_N SM453229-381N7Y R10 75R

P2C_N T6 GND C6 0.1uF 02C_N L6 2C_N 02C_P 2C_P CMC-800R
P2C_P SM453229-381N7Y R14 75R

P2D_N T8 GND C8 0.1uF 02D_N L8 2D_N 02D_P 2D_P CMC-800R
P2D_P SM453229-381N7Y R16 75R

C10 1nF/2kV GNDPWR

R1 1M GND C22 0.01uF/1kV GNDPWR

P4A_N T11 GND C13 0.1uF 04A_N L11 4A_N 04A_P 4A_P CMC-800R
P4A_P SM453229-381N7Y R19 75R

P4B_P T9 GND C11 0.1uF 04B_P L9 4B_P 04B_N 4B_N CMC-800R
P4B_N SM453229-381N7Y R17 75R

P4C_N T13 GND C15 0.1uF 04C_N L13 4C_N 04C_P 4C_P CMC-800R
P4C_P SM453229-381N7Y R21 75R

P4D_N T15 GND C17 0.1uF 04D_N L15 4D_N 04D_P 4D_P CMC-800R
P4D_P SM453229-381N7Y R23 75R

C19 1nF/2kV GNDREF

P3A_N T12 GND C14 0.1uF 03A_N L12 3A_N 03A_P 3A_P CMC-800R
P3A_P SM453229-381N7Y R20 75R

P3B_P T10 GND C12 0.1uF 03B_P L10 3B_P 03B_N 3B_N CMC-800R
P3B_N SM453229-381N7Y R18 75R

P3C_N T14 GND C16 0.1uF 03C_N L14 3C_N 03C_P 3C_P CMC-800R
P3C_P SM453229-381N7Y R22 75R

P3D_N T16 GND C18 0.1uF 03D_N L16 3D_N 03D_P 3D_P CMC-800R
P3D_P SM453229-381N7Y R24 75R

C20 1nF/2kV GNDREF

R25 1M GND C21 0.01uF/1kV GNDREF

PWR_FLAG GNDREF PWR_FLAG GNDPWR