This page is a schematic diagram (SCH-29364 PDF: SPF-29364) containing circuit symbols, component labels, and net names for an i.MX6ULL SOM board design.

INPUT

100ohm

CN10

TX+ 1
TX- 2
RX+ 3
nc4 4
nc5 5
RX- 6
nc7 7
nc8 8

TX_P
TX_N
RX_P
RJ_45
RX_N
RJ_78

RC01456

Power Over Ethernet

Matched Net Lengths [Tolerance = 100mil]
Diff Pair 100ohm
Matched Net Lengths [Tolerance = 100mil]
Diff Pair 100ohm
Matched Net Lengths [Tolerance = 100mil]   Diff Pair 100ohm
Diff Pair 100ohm
Matched Net Lengths [Tolerance = 100mil]
Diff Pair 100ohm

NOTE : Place for additional ferrite beads

T4

16
15
14
11
10
9

H1601CG

1 TXO1_P
2
3 TXO1_N
6 RXI1_P
7
8 RXI1_N

0.0 ohm

R46 75
R33 75
R26 75
C37 1nF
C32 1nF
R42 75
C26 1nF
C34 1nF
C89 1000pF

Chassis

Chassis   R96 0.0

INPUT

100ohm

CN4

TX+ 1
TX- 2
RX+ 3
nc4 4
nc5 5
RX- 6
nc7 7
nc8 8

TX2_P
TX2_N
RX2_P
RJ_45_2
RX2_N
RJ_78_2

RC01456

Power Over Ethernet

Matched Net Lengths [Tolerance = 100mil]
Diff Pair 100ohm
Matched Net Lengths [Tolerance = 100mil]
Matched Net Lengths [Tolerance = 100mil]   Diff Pair 100ohm
Diff Pair 100ohm
Matched Net Lengths [Tolerance = 100mil]
Diff Pair 100ohm

NOTE : Place for additional ferrite beads

T3

16
15
14
11
10
9

H1601CG

1 TXO2_P
2
3 TXO2_N
6 RXI2_P
7
8 RXI2_N

R29 75
R30 75
R31 75
C23 1nF
R32 75
C25 1nF
C29 1nF
C30 1nF
C38 1000pF

Chassis_2   Chassis_2   R34 0.0

i.MX6ULL IOMUX

i.MX6ULL IOMUX pin mapping schematic sheet (columns 1–6, rows A–D) showing signal-name to pad assignments. Pin list includes TEST_MODE, POR_B, ONOFF, SNVS_PMIC_ON_REQ, CCM_PMIC_STBY_REQ, BOOT_MODE0/1, SNVS_TAMPER0–9, JTAG_MOD/TMS/TDO/TDI/TCK/TRST_B, GPIO1_IO00–IO09, UART1–5 TXD/RXD/CTS/RTS, ENET1/ENET2 signals, LCD_CLK/ENABLE/VSYNC/HSYNC/RESET/DATA00–23, NAND signals, SD1 signals, CSI signals, and corresponding GPIO2/GPIO3/GPIO4/GPIO5 mappings, with right-margin pull configuration notes (100K PD, 100K PU, 47K PU, Keeper, etc.).