

RJ45 & Transformer

The diagram illustrates the electrical connections for an RJ45 module and a transformer. The RJ45 module (J1) is connected to a transformer (T1) with primary windings 1-8 and secondary windings 9-16. The transformer is labeled PULSE_H1197. The secondary windings are connected to a circuit with resistors R14, R16, R17, and R26, all with a value of 49.9. The circuit also includes capacitors C18 and C21, both 0.1uF, and a +3.3V supply. The RJ45 module is connected to a network of LEDs (LED+, LED-, LEDA+, LEDA-) and a network of resistors (R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100).

Legend:

- 1 RJ45-LED
- 2 LEDB_CATH
- 3 LEDA_CATH
- 4 SPARE_PAIR_1
- 5 SPARE_PAIR_2
- 6 DATA_PAIR_1
- 7 DATA_PAIR_2
- 8 PULSE_H1197
- 9 TPOUT+
- 10 TPOUT-
- 11 TPIN+
- 12 TPIN-
- 13 R14
- 14 R16
- 15 R17
- 16 R26
- 17 C18
- 18 C21
- 19 GND
- 20 +3.3V
- 21 BEAD
- 22 L2

BOM DONE

Ethernet PHY

[illegible]

Linear Regulator

The diagram shows a linear regulator circuit. The input is +5V (VIN) connected to pin 3 of the LM1117IMPX-ADJ (U3). The output is +3.3V (VOUT) connected to pin 2. Pin 1 (ADJ/GND) is connected to ground through a 390 ohm resistor (R13). A 240 ohm resistor (R15) and a 0.1uF capacitor (C19) are connected between the output and ground. A 360 ohm resistor (R18) and a 1uF capacitor (C20) are connected between the output and ground. An LED (D6) is connected to the output.

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