Have long pads for SMD footprints, for hand soldering.

TODO: verify pin numbers against datasheets.

TODO: verify footprints against datasheets.

THERMISTOR 1

(AIN4−AIN5)/(AVDD−AVSS)

1K 0.1% 10ppm — R3, R6 470R, R9 470R, R12 — 1K 0.1% 10ppm
+2V5A, −2V5A, C3 100n, C6 2u2, C9 100n, GNDA
AIN4, AIN5, J3

THERMISTOR 2

(AIN6−AIN7)/(AVDD−AVSS)

1K 0.1% 10ppm — R1, R4 470R, R5 470R, R2 — 1K 0.1% 10ppm
+2V5A, −2V5A, C2 100n, C1 2u2, C4 100n, GNDA
AIN6, AIN7, J1

THERMISTOR 3

(AIN8−AIN9)/(AVDD−AVSS)

1K 0.1% 10ppm — R7, R10 470R, R11 470R, R8 — 1K 0.1% 10ppm
+2V5A, −2V5A, C7 100n, C5 2u2, C8 100n, GNDA
AIN8, AIN9, J2

ADS1261B U1

AINCOM 1, AVDD 4, DVDD 17
NC 19, NC 20, NC 21, NC 22
RESET_N 8, PWDN_N 7, DRDY_N 13, START 9, CLKIN 18
+3V3D, GNDD
AIN9 23, AIN8 24, AIN7 25, AIN6 26, AIN5 27, AIN4 28, AIN3 29, AIN2 30, AIN1 31, AIN0 32
MOSI 12, MISO 14, SCLK 11, CS_N 10
REFOUT 6, BYPASS 15
CAPP, CAPN, C17 4n7
AVSS 5, AVSS 33, DGND 16
C10 1u, C12 100n, C11 1u, C13 100n
R15 51K, R16 51K
R18 47R, R19 47R, R21 47R, R22 47R
PA7, PA6, PA5, PB14
C21 1u, C22 10u, R28 51K, R29 51K
−2V5A, GNDA, GNDD

ESD5344D−TP U2

GNDD

LOAD CELL

(AIN2−AIN3)/(AIN0−AIN1)

1K 0.1% 10ppm R17, 1K 0.1% 10ppm R13
1K 0.1% 10ppm R14, 1K 0.1% 10ppm R30
1K 0.1% 10ppm R35, R36 1K 0.1% 10ppm
EXCIT_P 7, REF_P 6, SIGNL_P 5, SHLD 4, SIGNL_N 3, REF_N 2, EXCIT_N 1
+5VA, −5VA, JP1, JP2, J5
R34 1K, R20 1K
C18 22n, C15 220n, C16 22n, C14 22n, C19 220n, C20 22n
AIN0, AIN1, AIN2, AIN3
GNDA

R23 5K1, R24 5K1, R25 5K1, R26 5K1, R27 5K1
+5VA, −5VA, +2V5A, −2V5A, +3V3D
D1 RED, D2 RED, D3 RED, D4 RED, D5 RED
GNDA

J6 pcie_98 BUS
PWR_FLAG, PWR_FLAG, +5VD, GNDD
B1...B49, A1...A49
PB14, PA6, PA5, PA7

TPS65135 U6

L1 2u2H
L1 15, L1 16, L2 13, L2 14
VIN 1, EN 8, VAUX 4, GND 5, PGND 12, PGND 11, PAD 17
OUTP 9, OUTP 10, FB, FBG, OUTN 2, OUTN 3
+5VD
360K 0.1% R31, 100K 0.1% R32, 464K 0.1% R33
C33 10u, C41 10u
C42 10u, C43 100n
+5V7, −5V7
GNDA

TPS7A2050PDBVR U3
IN 1, EN 3, OUT 5, GND 2, NC 4
+5V7 → +5VA
C23 100n, C25 100n, C26 10u, GNDA

TPS7A2025PDBVR U4
IN 1, EN 3, OUT 5, GND 2, NC 4
+5VA → +2V5A
C24 100n, C27 100n, C28 10u, GNDA

ADP7182AUJZ−5.0 U7
EN 3, VIN 2, GND 1, VOUT 5, NC 4
−5V7 → −5VA
C34 100n, C36 100n, C38 100n, GNDA

ADP7182AUJZ−2.5 U8
EN 3, VIN 2, GND 1, VOUT 5, NC 4
−5VA → −2V5A
C37 10u, C39 100n, C40 10u, GNDA

XC6206P332MR U9
VIN 3, GND 1, VOUT 2
C5446
+5VD → +3V3D
C29 10u, C30 100n, C31 100n, C32 10u, GNDD

DIGITAL 3.3V

PWR_FLAG, R37 0R, GNDA, GNDD