1X ETHERNET OUT TO USB TYPE-C

+5V
FB26
145@1GHz
2A
+5V_USB3.0_MUX

+VDD_1V2_LAN
FB39
1000@100Mhz
500mA
C504 100nF 16V
C505 100nF 16V
C506 100nF 16V
C507 100nF 16V
+VDD_1V2_LAN_VDD12CORE
L5
3.3uH
6.6A
C337 22uF 16V
C338 22uF 16V
C193 100nF 16V
+VDD_2V5_LAN
C226 10uF 6.3V
C194 100nF 16V
+VDD_1V2_LAN
FB43
1000@100Mhz
500mA
C513 100nF 16V
C514 100nF 16V
C515 100nF 16V
C516 100nF 16V
+VDD_1V2_LAN_VDD12A
+VDD_2V5_LAN
C500 100nF 16V
C501 100nF 16V
C502 100nF 16V
C503 100nF 16V

U38
VDD25A_4 12
VDD25A_3 9
VDD25A_2 6
VDD25A_1 3
VDD12A_3 44
VDD12A_2 30
VDD12A_1 25
VDD12CORE_2 42
VDD12CORE_1 21
VDD12_SW_OUT 13
VDD12_SW_FB 15
VDD25_REG_OUT 45
VDD_SW_IN 14
VDDVARIO1 20
VDDVARIO2 36
VDDVARIO3 39
VDD33A 38
VDD33_REG_IN 46
VBUS_DET 23
USB2DP 26
USB2DM 27
USB3_TXDP 28
USB3_TXDM 29
USB3_RXDP 31
USB3_RXDM 32
RESET_N/PME_CLEAR 35
EECS/GPIO0 16
EEDI/GPIO1 17
EEDO/LED0/GPIO2 18
EECLK/LED1/GPIO3 19
PME_N/GPIO4 22
SUSPENDED_N/LED2/GPIO5 24
LED3/GPIO6 33
PME_MODE/GPIO7 43
XI 40
XO 41
TR0P 1
TR0N 2
TR1P 4
TR1N 5
TR2P 7
TR2N 8
TR3P 10
TR3N 11
TEST 34
USBRBIAS 37
REF_REXT 47
REF_FILT 48
EPAD 49
3130-102033
LAN7800-I/VSX

+3V3_LAN
FB24
145@1GHz
2A
+3V3
C225 10uF 6.3V
C192 100nF 16V
+3V3
C508 100nF 16V
C509 100nF 16V
C510 100nF 16V
C511 100nF 16V
+3V3
FB25
145@1GHz
2A
+3V3
C230 1uF 25V
+3V3
R99 100KOhm
R28 0Ohm
RESET_N_LAN
RESET_N_LAN_PIC

VBUS_DET
USB2.0_CONN_DP
USB2.0_CONN_DN
USB3.0_CONN_TXP
USB3.0_CONN_TXN
USB3.0_CONN_RXP
USB3.0_CONN_RXN

ADD EEPROM?

X3
CLK NC/OE
VCC GND
2300-80070E
KC2520B25.0000C10E00
25MEGHz
R273 22Ohm
+1V8
FB12
1500@100Mhz
500mA
+3V3
FB19 NOB
1500@100Mhz
500mA
C512 100nF 16V

CHECK CLOCK LOGIC LEVEL COMPATIBILITY

+5V_USB3.0_CONN
R97 100KOhm
VBUS_DET
R98 100KOhm
C236 2.2uF 10V

T1
P3_MDI0_P C7 16V 100nF
P3_MDI0_N
P3_MDI1_P C205 16V 100nF
P3_MDI1_N
P3_MDI2_P C217 16V 100nF
P3_MDI2_N
P3_MDI3_P C372 16V 100nF
P3_MDI3_N
TD1_P TCT1 TD1_M
TD2_P TCT2 TD2_M
TD3_P TCT3 TD3_M
TD4_P TCT4 TD4_M
PULSE GigE TRANSFO
MX1_P MCT1 MX1_M C373 16V 100nF
MX2_P MCT2 MX2_M C484 16V 100nF
MX3_P MCT3 MX3_M C485 16V 100nF
MX4_P MCT4 MX4_M C486 16V 100nF
5600-80011E
HX5120NL
P3_MDI0_P_C
P3_MDI0_N_C
P3_MDI1_P_C
P3_MDI1_N_C
P3_MDI2_P_C
P3_MDI2_N_C
P3_MDI3_P_C
P3_MDI3_N_C

R170 10KOhm
R287 12KOhm
R293
C231 1uF 25V

23 RESET_N_LAN_PIC

19 P3_MDI0_P
19 P3_MDI0_N
19 P3_MDI1_P
19 P3_MDI1_N
19 P3_MDI2_P
19 P3_MDI2_N
19 P3_MDI3_P
19 P3_MDI3_N

23 EN_N_USB3MUX_PIC

23 I2C_PIC_M_SCL
23 I2C_PIC_M_SDA

+5V_USB3.0_MUX
909K OHM TO BE CHANGED TO 900K
5V SHOULD BE AVAILABLE BEFORE 3.3V
C94 100nF 25V

U39
VDD5 30
VBUS_DET 5
R292 4.75KOhm
PORT 4
INT_N/OUT3 23
ID 27
SCL/OUT2 26
SDA/OUT1 25
VCONN_FAULT_N 24
CURRENT_MODE 3
CC1
CC2
R291 909KOhm
+5V_USB3.0_CONN
USB3.0_CONN_CC1
USB3.0_CONN_CC2
I2C_PIC_M_SCL R30 0Ohm I2C_USBMUX_SCL
I2C_PIC_M_SDA R31 0Ohm I2C_USBMUX_SDA
+3V3
FB27
145@1GHz
2A
+3V3_USB3MUX
C95 100nF 25V
R290 215KOhm
DIR 11
VCC33 8
USB3.0_CONN_TXP 0Ohm R313 USB3.0_CONN_TXP_C 6
USB3.0_CONN_TXN 0Ohm R344 USB3.0_CONN_TXN_C 7
TXp
TXn
USB3.0_CONN_RXP 0Ohm R345 USB3.0_CONN_RXP_C 9
USB3.0_CONN_RXN 0Ohm R346 USB3.0_CONN_RXN_C 10
RXp
RXn
EN_N_USB3MUX_PIC 0Ohm R29 EN_N_USB3MUX 12
ENn_Mux
R100 100KOhm
ENn_CC 29
ADDR 22
GND1 13
GND2 28
EP 31
3130-102090
HD3SS3220IRNHT
TX2p TX2n USB3.0_CONN_TX2P_C 100nF C201 25V USB3.0_CONN_TX2P
USB3.0_CONN_TX2N_C 100nF C202 25V USB3.0_CONN_TX2N
RX2p RX2n USB3.0_CONN_RX2P USB3.0_CONN_RX2N
TX1p TX1n USB3.0_CONN_TX1P_C 100nF C203 25V USB3.0_CONN_TX1P
USB3.0_CONN_TX1N_C 100nF C204 25V USB3.0_CONN_TX1N
RX1p RX1n USB3.0_CONN_RX1P USB3.0_CONN_RX1N
+5V_USB3.0_MUX
R102 100KOhm NOB
EN_N_USB3MUX_PIC
R101 100KOhm
I2C_ADDRESS=0X47

+5V_USB3.0_CONN
L15
1800-80032E
0603USB-222MLB
U34
GND 1
NC-2 2
NC-1 3
VBUS 6
D- 5
D+ 4
4300-80013E
RClamp0502N.TCT
5V
USB2.0_CONN_DP
USB2.0_CONN_DN
D+/D- ARE SWAPPED IN ESD DIODE--WHICH IS OKAY

U9
Out_1+ 10
Out_1- 9
Out_2+ 7
Out_2- 6
In_1+ 1
In_1- 2
In_2+ 4
In_2- 5
Internal (ASIC)
VN_2 8
VN_1 3
1800-102267
USB3.0_CONN_TX1P_CONN
USB3.0_CONN_TX1N_CONN
USB3.0_CONN_RX1P
USB3.0_CONN_RX1N
USB3.0_CONN_TX1P
USB3.0_CONN_TX1N
USB3.0_CONN_RX1P_CONN
USB3.0_CONN_RX1N_CONN

U49
Out_1+ 10
Out_1- 9
Out_2+ 7
Out_2- 6
In_1+ 1
In_1- 2
In_2+ 4
In_2- 5
Internal (ASIC)
VN_2 8
VN_1 3
1800-102267
USB3.0_CONN_TX2P
USB3.0_CONN_TX2N
USB3.0_CONN_RX2P
USB3.0_CONN_RX2N
USB3.0_CONN_TX2P_CONN
USB3.0_CONN_TX2N_CONN
USB3.0_CONN_RX2P_CONN
USB3.0_CONN_RX2N_CONN

+5V_USB3.0_CONN
FB38
500mA
1500@100Mhz
C499 10uF 25V
J9
SSTXp1 1A2
SSTXn1 1A3
SSTXp2 1B2
SSTXn2 1B3
SBU1 1A8
SBU2 1B8
SSRXp1 1B11
SSRXn1 1B10
SSRXp2 1A11
SSRXn2 1A10
CC1 1A5
CC2 1B5
VBUS_1 1A4
VBUS_2 1A9
VBUS_3 1B4
VBUS_4 1B9
Dp1 1A6
Dn1 1A7
Dp2 1B6
Dn2 1B7
GND1 1A1
GND2 1A12
GND3 1B1
GND4 1B12
SHILED1 S1
SHIELD2 S2
2100-102120
USB-C31-D-RA-CS2
USB3.0_CONN_TX1P_CONN
USB3.0_CONN_TX1N_CONN
USB3.0_CONN_TX2P_CONN
USB3.0_CONN_TX2N_CONN
USB3.0_CONN_CC1
USB3.0_CONN_CC2
USB2.0_CONN_DP
USB2.0_CONN_DN
1000@100Mhz
500mA
FB30
ESD DIODE TO BE ADDED FOR CC PINS

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PROJECT: T171

SIZE	DWG NO	NAME	SHEET	REV
C	1000-171	T171	22- 1x Ethernet to Type-C USB3 out	01

DRAWN BY	SHEET	of	DATE
Chethan	22	28	06/03/2024:12:16