U7
TPD2E009DRTR
TIVA_D_P 1 D+   D- 2 TIVA_D_N
[IPP009A_CONNECTORS-no BQ[6A], IPP009A_TIVA[6B]]   IPP009A_CONNECTORS-no BQ[6A], IPP009A_TIVA[6B]
3 GND
GND

TIVA_P3V3
R97
1.02k
D10
MBR0520LT1G
T_RST
S3
B3U-1000P
C27
16V
1uF
GND

U8
TM4C123GH6PMTR
TIVA_P3V3
C34 C35 C36 C37
0.1uF 0.1uF 0.1uF 0.1uF
GND

11 VDD
26 VDD
42 VDD
54 VDD
2 VDDA
25 VDDC
56 VDDC
37 VBAT
32 WAKE
38 RST
40 OSC0
41 OSC1

HIB 33
XOSC0 34
XOSC1 36
PC0/TCK/SWCLK 52 ICD_TCK
PC1/TMS/SWDIO 51 ICD_TMS
PC2/TDI 50 ICD_TDI
PC3/TDO/SWO 49 ICD_TDO
PC4 16
PC5 15
PC6 14 R106 A_GPIO11
PC7 13 R78 I2Ct_IRQ

GND
C39 C40 C41 C42
4.7uF 0.1uF 4.7uF 0.1uF
GND GND

TIVA_P3V3
R76 R77
10.0k 10.0k
GND

T_RST

C43
10pF

Y1
C44

PA0/U0Rx 17 R81 DBG_UART
PA1/U0Tx 18
PA2/SSI0Clk 19
PA3/SSI0Fss 20
PA4/SSI0Rx 21
PA5/SSI0Tx 22 R82 I2Cc_IRQ
PA6 23 R83 I2Ct_SCL
PA7 24 R84 I2Ct_SDA

PD0 61 R79 DBG_SCL
PD1 62 R80 DBG_SDA
PD2 63
PD3 64
PD4 43 TIVA_D_N
PD5 44 TIVA_D_P
PD6 53
PD7 10

PE0 9
PE1 8
PE2 1
PE3 2
PE4 59 R107 TEST2
PE5 60 R108 TEST1

PB0/USB0VID 45
PB1/USB0VBUS 46
PB2/I2C0SCL 47 R85 I2Cc_SCL
PB3/I2C0SDA 48 R86 I2Cc_SDA
PB4 58
PB5 57
PB6 56
PB7 4

PF0 28
PF1 29
PF2 30
PF3 31
PF4 5

GNDX 35
GNDA 3
GND 12
GND 27
GND 39
GND 55
GND

TIVA_VBUS
C50 C46 C47 C48 C49
50V 0.01uF 0.01uF 0.01uF 0.01uF
1uF
GND

U15
TVS0500DRVR
D2
Blue
R25
10.0k
GND

L6
TIVA_5V

U9
TLV75533PDQNT
4 IN   OUT 1 TIVA_P3V3   TIVA_P3V3
3 EN   PAD 5
GND 2
C51
16V
1uF
GND

C45
16V
1uF
GND

TIVA_P3V3
C52 C53 C54 C55 C56 C57 C58 C59 C60
0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 16V
1uF
GND GND GND GND GND GND GND GND GND

TIVA_VBUS

Orderable:
TID #:
Number: Rev:
SVN Rev: a9cd6183e3ad80698c084a5ee80e53c7660f7a [Assemble Variations]
Drawn By:
Engineer:
Designed for:
Project Title:
Sheet Title:
File: IPP009A_TIVA.SchDoc
Contact:
Mod. Date: 2/3/2025
Sheet: 10 of 11
Size: B