PAC5256

U1 PAC5256

VCC18 VCCIO PE5 PE4 PE3 RX1 TX1 PE0 SWDIO SWDCL PD2 PD3 PD4 PD5 VSS GND

PC5 PC4 PC3 PC2 VCC33 PC1 VSYS AIO7 AIO8 AIO9 AIO5 AIO4 AIO3 AIO2 AIO1 AIO0 AIO6 BST_CHG

DXB2 DRB5
DXH2 DRH5
DXS2 DRS5
DXB1 DRB4
DXH1 DRH4
DXS1 DRS4
DXB0 DRB3
DXH0 DRH3
DXS0 DRS3

DRL2 DRL1 DRL0 VP SW CSM VM SRC DRM BST

V5V VCCIO
R3 0
C3 2.2 uF 25V
C1 4.7 uF 10V
GND
V3P3
C2 2.2 uF 25V
J1 JTAG SWDIO SWDCL
J4 UART RX1 TX1
R5 330
D2 VSYS
L4 750 mA 10uH
C20 10uF 25V
C22 10uF 25V
C36 2.2 uF 25V
R11 1K
C4 0.1 uF 630V
HV_VM
VM

VP R55 0

HV_U DRH3 R27 150 D9 75V Q2 600V
VPD D12 600V DRB3 C23 1 uF 25V C11 0.1 uF R23 10K DNP DRS3 J10 AOB15B65M1

HV_V DRH4 R28 150 D10 75V Q3 600V
VPD D14 600V DRB4 C24 1 uF 25V C12 0.1 uF R24 10K DNP DRS4 J11 AOB15B65M1

HV_W DRH5 R29 150 D11 75V Q4 600V
VPD D16 600V DRB5 C25 1 uF 25V C13 0.1 uF R25 10K DNP DRS5 J12 AOB15B65M1

DRL0 R33 150 D18 75V Q5 600V
AIO10_P R36 100 C26 3300 pF AIO10_N R42 100 SNSU R39 0.05 R26 10K DNP DRS3 AOB15B65M1

DRL1 R34 150 D19 75V Q6 600V
AIO32_P R37 100 C27 3300 pF AIO32_N R43 100 SNSV R40 0.05 R30 10K DNP DRS4 AOB15B65M1

DRL2 R35 150 D20 75V Q7 600V
AIO54_P R38 100 C28 3300 pF AIO54_N R44 100 SNSW R41 0.05 R31 10K DNP DRS5 AOB15B65M1

C14 1 uF 450V
C15 1 uF 450V
C16 0.1 uF 630V
C32 0.1 uF 630V
C33 0.1 uF 630V

J3 Header 20
PC5 PC4 PC3 PC2 PC1 AIO7 AIO8 AIO9 AIO54_P AIO54_N AIO32_P AIO32_N AIO10_P AIO10_N AIO6
V5V V3P3 V5V GND GND

J2 Header 14
GND VCCIO PE5 PE4 PE3 RX1 TX1 PE0 SWDIO SWDCL PD2 PD3 PD4 PD5

R2 1 M
R9 1 M
R17 10K
C46 1000 pf
PC2
HV_VM

HV_U HV_V HV_W DRS3 DRS4 DRS5
R56 200K R57 200K R58 200K
R45 200K R46 200K R47 200K
AIO7 AIO8 AIO9
C29 1000 pf C31 1000 pf C30 1000 pf
R48 2.4K R49 2.4K R50 2.4K

JMP1 JMP1X3 PD2 PWMB0 R4 4.3K DAC1 C37 1000 pf C9 1000 pf R1 100 HALL_U TP18 DAC1
JMP2 JMP1X3 PD3 PWMB1 R8 4.3K DAC2 C42 1000 pf C39 1000 pf R52 100 HALL_V TP19 DAC2
JMP3 JMP1X3 PD4 PWMD1 R10 4.3K DAC3 C43 1000 pf C40 1000 pf R54 100 HALL_W TP20 DAC3

VCCIO J15 Header 5 HALL_U HALL_V HALL_W C41 0.1 uF

HV_AC HV_VAC J6 Header 3 L N E
L3 AC1I AC1O AC2I AC2O ET24 HV_VAC2
C8 760 VDC 0.22nF
C10 2000 V 820 pF
C21 820 pF 2000 V
BR1 AC1 AC2 Bridge_Rect
C6 450V 220 uF
C34 450V 220 uF DNP
C7 450V 6.8 uF
EARTH

VM HV_VM Q1 FQP2N60C
DRM R6 0
C17 25V DNP
SRC C5 2.2 uF 25V BST D4 MUR160GP BST_CHG C35 220 pF 50V
L1 Inductor 1 mH CSM R7 0.33
D1 MUR160GP
C19 10uF 25V C18 220 uF 25V
VP

GND TP8 GND TP11 GND TP10 GND TP21 VM TP4 VP TP1 DRM TP2 CSM TP3 BST TP13 DRL0 TP5 DRL1 TP6 DRL2 TP7 SW TP14 BSTCHG TP16 SRC TP17 DRH3 TP9 DRH4 TP12 DRH5 TP15

J7 Header 2
R21 330
C44 1000 pf
U2 LTV817 An Cat Col Em
AIO6 DNP R20 0
D5 75V
R22 2K
VCCIO R19 10K
PD5
C45 1000 pf

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PAC5256EVK1

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C			B
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