Ardonyx Version 1.0
IIT MADRAS

H3

3v3 SDA SCL Gnd   SPI1_MISO MOSI nCS CLK Gnd V3P3

J1   R1 R2   J2

I2C1_SCL SDA VAC GND IO_13 12 11 10 9 IO_8 IO_7 6 5 4 3 2 1 IO_0   H8

H7   J3   J4

FID1

R3 R4 R5
D1 D2 D3
A   A   A

R10
R11
R12
R13
R14
R15
R16
R17

U2 256

C1 R6 20

C4   11   U1

R18 20

H1

Y1
C16   U5   C17
R28
R32
R35

TP3
R36
R39
TP4

C11   U4
C22   10

C13
C20
C25
C30
C33
C34 C36
C38

C29
R43   16   9
C46   U6   8

H2

SW1   3   4
1   5

R63

R72

R42
R44
R47
R52
R54
R55
R56
R61

64

R48
R49
R57
R58
R59
R62
R67
R75

129

65

65   128

H5

VREFRST V3P3V5P0GNDGNDV12P0   A0 A1 A2 A3 A4 A5

J5   C49   J6
C50

J8

SW2   Boot_Mode0
Boot_Mode1
Test_Mode

R81
R82
R83
R84
R85
R86

C51

C52

C53
R87
R88
R89
R90
R91
R92
R93

J9   J7
V3P3 VREF V5P0
J10

V3P3 VAC V5P0

J11   J12
V3P3 TCK TRST TMS TDI TDO NC GND

R98
U8

UART0_RX
UART0_TX
GND

R120

R104
R105
C58

U9

R106
R116
R118
R127

R107
U10 C55
C56

R108
R109

TP7   R117
TP8   R119
R122
TP9

V3P3 IO_14 15 A6 A7 GND

SW3

J14
V3P3 I2C0_SCL SDA GND
R131

C60
C61 C62 C63
C64

C65
C66   L1

C67 C68

C69

D4
R123
TP2   R124
R129
R130 33   32
R132
R139
R140 R141
48

Q1
R137
D6 D7 D8
A   A   A
R142

R134
R138

R144

C71   U12
5
1   +ve
C80
8   -ve

R135   C81

R145 U13
R147 C89
R148 C93

C82
C90

F1

J13

U11

16

C77

R126

C88

Y2

R150   C91
R151
U15
5
1   +ve
C97
8   -ve

J15
FB5
C95
-ve   +Ve

H6   FID2   +Ve

R146
C85 C86
C87
C94

R149
U14
TP1   C96 FB4

J17   QSPI0
V3P3 CLK IO0 IO1 IO2 IO3 NCS_H GND

J18 QSPI0 CS
NCS_H NCS_F NCS

R152
R153

L2

H4

TP5

C98   C99   C100

J19
VBUS V5P0(O/P) V5P0(I/P)

FB7   J16