U5

PA0 65 PA0/IR-RX/PWM7/TWI0-SCL/TWI1-SCL/LCD-VSYNC/LCD-D2
PA1 66 PA1/FEL0/IR-TX/FEM-CTRL1/IR-RX/TWI0-SDA/TWI1-SDA/LCD-D3
PA2 67 PA2/FEL1/SPI1-CS/DBI-CSX/DMIC-DATA0/JTAG-RV-TMS/SDC-DATA1/I2S-LRCLK/JTAG-DSP-TMS/LCD-D4
PA3 68 PA3/SPI1-CLK/DBI-SCLK/DMIC-DATA1/JTAG-RV-TDI/SDC-DATA0/I2S-BCLK/JTAG-DSP-TDI/LCD-D5
PA4 69 PA4/SPI1-MOSI/DBI-SDO/DMIC-DATA2/UART0-TX/SDC-CLK/I2S-DIN/PWM1/LCD-D6
PA5 70 PA5/SPI1-MISO/DBI-SDI/DBI-TE/DBI-DCX/DMIC-DATA3/JTAG-RV-TDO/SDC-CMD/I2S-DOUT/JTAG-DSP-TDO/LCD-D7
PA6 72 PA6/SPI1-HOLD/DBI-DCX/DBI-WRX/DMIC-CLK/UART0-RX/SDC-DATA3/I2S-MCLK/LCD-CLK/LCD-D14
PA7 73 PA7/SPI1-WP/DBI-TE/OWA-IN/JTAG-RV-TCK/SDC-DATA2/JTAG-DSP-TCK/LCD-HSYNC/LCD-D13
PA8 74 PA8/UART0-RX/OWA-OUT/PWM0/OWA-IN/TWI1-SCL/FEM-CTRL2/LCD-D12
PA9 71 PA9/UART0-TX/PWM1/LEDC/TWI1-SDA/LCD-DE/LCD-D15
PA10 75 PA10/UART2-RTS/IR-RX/PWM2/TWI1-SCL/LCD-D11
PA11 5 PA11/WUPIO0/UART2-CTS/IR-TX/PWM3/TWI1-SDA/32KOSCO/FEM-CTRL1/LCD-D10
PA12 6 PA12/WUPIO1/ LXTAL-IN/UART2-TX/TWI0-SCL/UART2-RTS/IR-RX/SPI1-CS/DBI-CSX/LCD-VSYNC/LCD-D18
PA13 7 PA13/WUPIO2/ LXTAL-OUT/UART2-RX/TWI0-SDA/UART2-CTS/IR-TX/SPI1-CLK/DBI-SCLK/LEDC/LCD-D19
PA14 12 PA14/WUPIO3/PWM0/SPI1-MOSI/DBI-SDO/UART2-RX/SIM-DATA/UART1-RTS/TWI1-SCL/LCD-D20
PA15 30 PA15/PWM1/SPI1-HOLD/DBI-DCX/DBI-WRX/UART2-TX/SIM-CLK/UART1-CTS/TWI1-SDA/LCD-D21
PA16 28 PA16/TWI0-SCL/OWA-IN/TWI1-SCL/UART0-TX/IR-RX/UART2-TX/SWD-TMS
PA17 29 PA17/TWI0-SDA/OWA-OUT/TWI1-SDA/UART0-RX/IR-TX/UART2-RX/SWD-TCK
PA18 8 PA18/WUPIO4/I2S-MCLK/IR-RX/IR-TX/SPI1-MOSI/DBI-SDO/NCSI-HSYNC/LCD-VSYNC
PA19 9 PA19/WUPIO5/I2S-LRCLK/UART1-RTS/PWM4/DMIC-DATA0/SPI1-HOLD/DBI-DCX/DBI-WRX/NCSI-VSYNC/LCD-HSYNC
PA20 10 PA20/WUPIO6/I2S-BCLK/UART1-CTS/PWM5/DMIC-DATA1/SPI1-WP/DBI-TE/NCSI-PCLK/LCD-CLK
PA21 11 PA21/WUPIO7/I2S-DIN/UART1-RX/PWM6/DMIC-DATA2/SPI1-MISO/DBI-SDI/DBI-TE/DBI-DCX/NCSI-MCLK/LCD-DE
PA22 13 PA22/WUPIO8/I2S-DOUT/UART1-TX/PWM7/DMIC-DATA3/LEDC/NCSI-D0
PA23 14 PA23/WUPIO9/I2S-MCLK/DCXO-PUP-OUT/SWD-SWO/DMIC-CLK/TWI0-SCL/PWM0/NCSI-D1
PA24 35 PA24/SDC-DATA3/SPI0-MISO/PWM4/UART2-RX/TWI0-SDA/SIM-DATA/NCSI-D6
PA25 34 PA25/SDC-CMD/SPI0-WP/PWM5/JTAG-M-TDO/JTAG-RV-TDO/SIM-CLK/NCSI-D5
PA26 32 PA26/SDC-DATA0/SPI0-CLK/PWM6/JTAG-M-TDI/JTAG-RV-TDI/LEDC/NCSI-D3
PA27 31 PA27/SDC-DATA1/SPI0-HOLD/PWM7/JTAG-M-TMS/JTAG-RV-TMS/SIM-DET/NCSI-D2
PA28 36 PA28/SDC-DATA2/SPI0-CS/FEM-CTRL1/JTAG-M-TCK/JTAG-RV-TCK/SIM-RST/NCSI-D7
PA29 33 PA29/SDC-CLK/SPI0-MOSI/FEM-CTRL2/UART2-TX/PWM1/LEDC/NCSI-D4

PB0 42 PB0/ADC0/UART0-TX/TWI1-SCL/IR-RX/UART2-RTS/PWM2/NCSI-HSYNC
PB1 41 PB1/ADC1/UART0-RX/TWI1-SDA/IR-TX/UART2-CTS/PWM3/NCSI-VSYNC
PB2 38 PB2/ADC2/PWM2/SPI1-MISO/DBI-SDI/DBI-TE/DBI-DCX/TWI1-SCL/SIM-RST/UART1-RX/UART2-RTS/LCD-D23
PB3 37 PB3/ADC3/PWM3/SPI1-WP/DBI-TE/TWI1-SDA/SIM-DET/UART1-TX/UART2-CTS/LCD-D22
PB4 43 PB4/ADC4/PWM4/LCD-DE
PB14 39 PB14/ADC6/UART1-TX/NCSI-PCLK
PB15 40 PB15/ADC7/UART1-RX/PWM0/NCSI-MCLK

USB_DM 24 USB-DM
USB_DP 25 USB-DP

HXOUT 2 HXTAL-OUT
HXIN 3 HXTAL-IN

81 EPAD
19 RSTN

R128-S1/S2

ANT0 79 ANT
ANT1 63
VIN-VBAT 20
VCC33-USB 23
EXT-LDO33 17
VCC33-RFPA0 78
VCC33-RFPA1 62
VCC-IO1 45
VCC-IO2 4
LX 21
VDD-SENSE 22
VCC18-TX0 77
VCC18-TX1 61
VCC18-ANA0-0 80
VCC18-ANA0-1 1
VCC18-ANA1 64
AVCC 56
AGND 55
VRA2 54
VRA1 53
MBIAS 46
CHIP-PWD 18 EN
LOUTRN 60 LOUTRN
LOUTRP 59 LOUTRP
LOUTLP 58 LOUTLP
LOUTLN 57 LOUTLN
MICIN3N 52 MICIN3N
MICIN3P 50 MICIN3P
MICIN2N 49 MICIN2N
MICIN2P 48 MICIN2P
MICIN1N 48 MICIN1N
MICIN1P 47 MICIN1P
VDD-DSP 15 VDD_SYSC18
VDD-AON 76 VDD_AONC19
VDD12-PSM 27 VDD_SYS C20
VDD-SYS2 44 VDD_SYS C21
VDD-SYS1 26 C22
VDD-RTC 16 C23

3V3
C8 4.7uF
C2 4.7uF
C3 1uF
C4 1uF
C5 1uF
C6 1uF
C7 100nF
VDD_SENSE
C1 4.7uF
C9 1uF
C10 1uF
C11 100nF
C12 100nF
C13 100nF
AVCC
C14 2.2uF
C15 470nF
C16 470nF
C17 2.2uF

1uF
1uF
1uF
1uF
1uF

ANT1
RF1
1 SIG
2 GND GND 3
BWIPX-1-001E

R2 0
C26 NC
C27 NC
3V3
C30 4.7uF

ANT1
R3 NC

L1 2.2uH

U2

MICIN2N 50
MICIN3P 49
MICIN3N 48
LOUTRP 47
LOUTRN/GND 46
LOUTLN 45
LOUTLP 44
MBIAS 43
ANT 42
41

MICIN2P 51 MICIN2P
MICIN1N 52 MICIN1N
MICIN1P 53 MICIN1P

1 GND GND 40
2 3V3 PA10 39 PA10
3 EN PA8 38 PA8
4 PA15 TXD0/PA16 37 PA16
5 PA27 RXD0/PA17 36 PA17
6 PA26 PA7 35 PA7
7 PA29 PA6 34 PA6
8 PA25 PA9 33 PA9
9 PA24 PA5 32 PA5
10 PA28 PA4 31 PA4
11 PB2 PA3 30 PA3
12 PB3 PA0 29 PA0
13 USB_DM USB- PA2 28 PA2
14 USB_DP USB+ PA1 27 PA1

15 PB0
16 PB1
17 PA23
18 PA22
19 PA14
20 PA21
21 PA20
22 PA19
23 PA18
24 PA13
25 PA12
26 PA11

U6
PB4 1
1

U7
PB14 1
1

U8
PB15 1
1

PA2 R4 47k

C24 10pF
X1
4
3 HXIN
1
2 C25 10pF
HXOUT
40MHz

R1 0