LDO

USB_BOOT

TOP Slot1
J3
Conn_02x08_Odd_Even
5V_2 1 | 2 3v3_2
GND 3 | 4 GND
SDA_2 5 | 6 SCL_2
MOSI_2 7 | 8 MISO_2
SPI_CLK_2 9 | 10 SS_2
RXD_2 11 | 12 TXD_2
DioNext_2 13 | 14
AioNext_2 15 | 16

TOP Slot2
J2
Conn_02x08_Odd_Even
DC_5V 1 | 2 3v3_M1
GND 3 | 4 GND
SDA 5 | 6 SCL
MOSI 7 | 8 MISO
SPI_CLK 9 | 10 SS
RXD_MCU 11 | 12 TXD_MCU
DioNext 13 | 14
AioNext 15 | 16
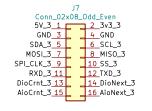
TOP Slot5
J8
Conn_02x08_Odd_Even
5V_4 1 | 2 3v3_4
GND 3 | 4 GND
SDA_4 5 | 6 SCL_4
MOSI_4 7 | 8 MISO_4
SPI_CLK_4 9 | 10 SS_4
RXD_4 11 | 12 TXD_4
DioNext_4 13 | 14
AioNext_4 15 | 16

TOP Slot6
J6
Conn_02x08_Odd_Even
5V_3 1 | 2 3v3_3
GND 3 | 4 GND
SDA_3 5 | 6 SCL_3
MOSI_3 7 | 8 MISO_3
SPI_CLK_3 9 | 10 SS_3
RXD_3 11 | 12 TXD_3
DioNext_3 13 | 14
AioNext_3 15 | 16

BOTTOM Slot1
J4
Conn_02x08_Odd_Even
5V_2 1 | 2 3v3_2
GND 3 | 4 GND
SDA_2 5 | 6 SCL_2
MOSI_2 7 | 8 MISO_2
SPI_CLK_2 9 | 10 SS_2
RXD_2 11 | 12 TXD_2
DioCrnt_2 13 | 14 DioNext_2
AioCrnt_2 15 | 16 AioNext_2

BOTTOM Slot2
J1
Conn_02x08_Odd_Even
DC_5V 1 | 2 3v3_M1
GND 3 | 4 GND
SDA 5 | 6 SCL
MOSI 7 | 8 MISO
SPI_CLK 9 | 10 SS
RXD_MCU 11 | 12 TXD_MCU
DioCrnt 13 | 14 DioNext
AioCrnt 15 | 16 AioNext

BOTTOM Slot5
J9
Conn_02x08_Odd_Even
5V_4 1 | 2 3v3_4
GND 3 | 4 GND
SDA_4 5 | 6 SCL_4
MOSI_4 7 | 8 MISO_4
SPI_CLK_4 9 | 10 SS_4
RXD_4 11 | 12 TXD_4
DioCrnt_4 13 | 14 DioNext_4
AioCrnt_4 15 | 16 AioNext_4

BOTTOM Slot6
J7
Conn_02x08_Odd_Even
5V_3 1 | 2 3v3_3
GND 3 | 4 GND
SDA_3 5 | 6 SCL_3
MOSI_3 7 | 8 MISO_3
SPI_CLK_3 9 | 10 SS_3
RXD_3 11 | 12 TXD_3
DioCrnt_3 13 | 14 DioNext_3
AioCrnt_3 15 | 16 AioNext_3

AE1 NA_LOGO
M1 MARK
AC1 NA_ANT
AC2 NA_ANT

SIMCARD
U3 ESIM
USIM_GND 1 | 8 USIM_VDD
USIM_DATAR 2 | 7 USIM_RSTR
3 | 6 USIM_CLKR
4 | 5
C5 C1
C6 C2
C7 C3
C8 C4

USIM_VDD 1 VCC
USIM_RSTR 2 RST
USIM_CLKR 3 CLK
USIM_GND 5 GND
6 VPP
USIM_DATAR 7 I/O
J12 SIM_Card
R14 15K
USIM_VDD

C12 33pF
C13 33pF
C15 33pF
USIM_CLKR 6
5
USIM_DATAR 4
USIM_VDD 3
USIM_RSTR 2
SMF05C U4
GND

Antenna
TH2 ANT_MAIN
ANT_MAIN 0R R8
C5 NA
C6 NA
GND

C25 0.1uF
R28 10R
VBAT
L1 47nH
GND

TH1 ANT_GNSS
ANT_GNSS
C22 NA
100pF C24
C26 NA
GND

TH3 ANT_DIV
ANT_DIV 0R R26
C23 NA
C27 NA
GND

VBAT
R12 0R
C10 100uF10V 10%
C16 10%
C18 33pF
C20 10pF
VBAT_BB
GND

R1 0R
C11 100uF10V 10%
C17 10%
C19 33pF
C21 10pF
VBAT_RF
GND

Indicators
D1 LED_RED
VBAT
R10 1K
NET_MODE
Q2 MUN52333
GND

D4 LED_RED
VBAT
R13 1K
NET_STATUS
Q3 MUN52333
GND

VBAT
R11 2K2
LED_RED D2
STATUS
C30 0.1uF
SW Push-Switch SW3
RESET_N
AioCrnt
Q5 MUN52333
GND

DioCrnt_4
Q7 MUN52333
PWRKEY
C28 10nF
GND

W_DISABLE_EC25
DioCrnt_2 Q6 MUN52333
AP_READY_EC25
DioCrnt_3 Q4 MUN52333
WAKEUP_IN_EC25
AioCrnt_2 Q8 MUN52333
GND

Level Shifter
C29 0.1uF
GND
3v3_M1/VDD_EXT
3v3_M1
U5 74LVC2G07-ABIIZEUS
TXD_MCU 1 1A VCC 5
TXD_EC25 3 2A 1Y 6 RXD_EC25
GND 2Y 4 RXD_MCU
GND

DC_5V
D7 PMEG4050
USB_VBUS
PMEG4050 D3
C1 C2 C3 104
10uF16V 10uF16V
GND

MIC29302A
IN GND PAD OUT
EN ADJ
DioCrnt
10K R15
GND
0R R5
220R R9
100K R6
47K R7
C7 10uF16V
C8 10uF16V
C9 104
VBAT
GND

J5 NA_USB_B_Micro
VBUS 1 USB_VBUS
D+ 2 USB_DP
D- 3 USB_DM
ID
Shield GND
GND

R18 4.7K
J10
VDD_EXT 1
USB_BOOT 2
D6 RLSD52A031V
GND

U1 EG21-G
VDD_EXT 1 VDD_EXT
VBAT_BB 60 VBAT_BB
VBAT_RF 59 VBAT_RF
PWRKEY 21 PWRKEY
RESET_N 20 RESET_N
STATUS 61 STATUS
NET_MODE 5 NET_MODE
NET_STATUS 6 NET_STATUS
RI_EC25 62 RI
DCD_EC25 63 DCD
CTS_EC25 64 CTS
RTS_EC25 65 RTS
DTR_EC25 66 DTR
ANT_DIV 35 ANT_DIV
ANT_MAIN 49 ANT_MAIN
ANT_GNSS 47 ANT_GNSS
TXD_EC25 0R 67 TXD
RXD_EC25 0R 68 RXD
USB_VBUS 71 USB_VBUS
USB_BOOT 115 USB_BOOT
USB_DP 69 USB_DP
USB_DM 70 USB_DM
12 DBG_TXD
11 DBG_RXD
I2C_SCL 41
I2C_SDA 42
45 ADC0
44 ADC1
WAKEUP_IN_EC25 WAKEUP_IN
W_DISABLE_EC25 W_DISABLE#
AP_READY_EC25 AP_READY
PCM_IN 24
PCM_OUT 25
PCM_SYNC 26
PCM_CLK 27
34 VDD_SDIO
23 SD_INS_DET
32 SDC2_CLK
33 SDC2_CMD
31 SDC2_DATA0
30 SDC2_DATA1
29 SDC2_DATA2
28 SDC2_DATA3
USIM_VDD 14 USIM_VDD
USIM_PRESENCE 13
USIM_DATA 15 USIM_DATA R2 0R USIM_DATAR
USIM_CLK 16 USIM_CLK R3 0R USIM_CLKR
USIM_RST 17 USIM_RST R4 0R USIM_RSTR
USIM_GND 10 USIM_GND R22 0R USIM_GND
135 WAKE_ON_WIRELESS
136 WLAN_EN
127 PM_ENABLE
118 SWLAN_SLP_CLK
133 SDC1_CLK
134 SDC1_CMD
132 SDC1_DATA0
131 SDC1_DATA1
130 SDC1_DATA2
129 SDC1_DATA3
USIM2_VDD 128
EPHY_RST_N 119
EPHY_INT_N 120
SGMII_MCLK 122
SGMII_MDATA 121
SGMII_RX_M 126
SGMII_RX_P 125
SGMII_TX_M 123
SGMII_TX_P 124
BT_EN 139
BT_RTS 37
BT_CTS 40
BT_RXD 39
BT_TXD 38
137 COEX_UART_RX
138 COEX_UART_TX
RSVD
GND

C4 1uF
GND

C14 10pF USIM_GND