|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |     **1.2V**  **1.2V**  **1.2V**  **1.2V**   |  | | --- | | **RESET** | | **Serial**  **EEPROM** |   **for** **digital** **part** **for** **RF** **core**  **for** **PLL**   |  | | --- | | 4G\_Modlue |  |  | | --- | | **Step-Down** **Regulator** |  |  | | --- | | **Antenna** **Connector** |  |  | | --- | | **SDRAM**  **16Mx16** |  |  | | --- | | USB I/F |   **2.4GHz** **TX0** **/RX0**  **O/Ps** **from** **internal** **LDOs**  10/100 Transformer  RJ45x5  **8M** **SPI**  **flash**  **7-35V**  **1.85V**  **1.85V**  **3.3V**  **3.3V**  C  D  B   |  | | --- | | **20MHz**  **XTAL** |     A  5 4 3 2 1 |  |
| D |
| C |
|  |
| B |
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| 5 | |  | 4 |  | 3 |  | 2 |  | 1 |  | |
|  | 3 NTXD1  4 HEADER  1  2 NRXD1  VIN  J12  4   |  |  |  | | --- | --- | --- | | 3.3VD  16  2 1  15  VCC  V  V    6 1 2  8 RXD1 1 R35 0R 2 NRXD1  7 TXD1 1 R34 0R 2 NTXD1   |  | | --- | | 3 |   RXD 1 R39 0R 2 RXDB 9  2  2  1  TXD 1 R38 0R 2  5 0.1uF,16V  11  TXDB 10  UART1  2 NRXD1  0.1uF,16V  C91 0.1uF,16V  C+  C-  V+  V-  2 4  NTXD1  ZR1  160pF  RXD  TXD  ZR2  160pF  VIN  J3  13  14  12  3  4  5  6  1  0.1uF,16V  2 1  C76  1  C714  U5  CON6  3.3VD    C87    0. 1uF,14   |  | | --- | | GND  R1IN R2IN  T1OUT T2OUT  C2+  C2-  T1IN  T2IN  R1OUT  R2OUT |   SP3232E | | R S 4 8 5 串口电路  1  1  8  2  2  5  1 2  10K/nc R30  1 2  2 3  **E** **C**  2  0402  IN  **B** 1 R79 4.7K RRXDB  0402  OUT  TXDB  RRXDB  Q9  2N3904  SOT23  RXDB  4  1  6  3  7  R28  10K  R32  10k/NC  MAX13487EESA  3.3VD  0R  U7  5V\_VDD  C109  0.1u  1  2  R20  RXD1  R26  10K  TXD1  5V\_VDD  5V\_VDD  10k  1 2  R31  R78  4.7K   |  | | --- | | DE /RE DO RI  GNDVCC  A  B |   1   2  R81  47K  0402      3.3VD  **4** **8** **5** 的 **5** **V**平D转 为 **3.3V** | | | | | | | | | | |  |
| D | D |
|  |  |
| C | C |
|  |  |
| B | B |
|  | **4** **8** **5** 的时候才安装这部分的物料 | | | | | | | | | |  |
| A | A |
| 5 | |  | 4 |  | 3 |  | 2 |  | 1 |  | |

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| 5 | | 4 | | 3 | | 2 | | | 1 | | | | |
| D | 2 1  R  R  A  A  DTR\_GPIO11  DCD\_GPIO12  DTR\_GPIO11 2  DCD\_GPIO12 3  R11 330  2  3  1  1  R12 330  1  4  LED  R8 330  R7 330  2  2  10K  D2 3.3VD    1 1    4 1    LED  D5  R3  2 LINK4  2 LINK0   |  | | --- | |  | | GND | | | | | LINK4  LINK0 | | | | | | | | D |
| C | C |
|  | 1  3.3VD  R44  4.7K | | PAD  TP18 TP17  PAD | | | | | | | | | |  |
|  |  |
| B | SW2  2   |  | | --- | | 1 |   2   |  |  | | --- | --- | |  | 4 | | 5 | |  |   6 7 GND  GPIO0  GPIO0  **HW** **Reset/**  **Factory** **Default**  3   |  | | --- | | 1  2  6  7  3  4  5 |   ST1114R  GND | | | | | | | | | | | | B |
| A | A |
|  | | | | | |  | | | | |  |
| Title | T260S | | | |
| Size  A | Document Number  LED\_SCH | | | Rev  V17 |
| Date: Tuesday, November 07, 2017 | | | Sheet 1 of 1 | |
| 5 | | 4 | | 3 | | 2 | | | 1 | | | | |

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| 5 | |  |  |  |  |  |  |  | | |  | |  | | D |
| D | TP1  DS-216B-P9  1 2  3 2  l5973d  8  VIN OUT  7  GND SYSNC  6  VREF INH  5  FB COMP  3.3VD  L5  15uH/2A DIP  TVS 100uF/50V/DIP  **7-35V**  SMAJ48CA  4 5  22nF/0402  R10  5.6K/!%  D1  B340A/SMD  C44  220PF  + + +  C106  220uF/6.3V  220uF/6.320uF/6.3V  S D  VIN  1  2 C47  3  4  R27  S D  C105 C3  0.1uF/0402  4.7K/0402  E  10K/1%  R47  R9  3.3K1%  IN4753  J6  2  1  3  PAD  R16  TP2  R13  4.7K1%  U3  EN  +  C52  8\*11  D7  1N4728  PAD  GND  VIN  0R/NC  D3 AP9561GM(SOP8)  1 8  2 7  3 6  B340A/SMD S D  D4 G D  U19  R42  100K/1%  C116  R43  1 Q8  10K/1% B C2N3906  GND  D18  36V  过压保护  GND | | | | | | | | | | | | | |
|  |
|  | C |
| C | 3.3VD  2 1  2 1  2 1  2 1  1  1  2  3  C82  10uF  0.1uF  C81  4  2  C80 C55 C77 C78 C79      10uF  0.1uF  0.1uF  0.1uF  0.1uF              GND  GND GND GND GND  U12 SOC\_1.8VD  3.3VD APL1117VC-18v   |  | | --- | | Vout  ADJ/G  Vin  Vout |   C83  10uF    GND GND GND | | | 5V\_VDD  2  GND  2 1  D6 R18  GPIO14  8   |  | | --- | | 2 GPIO19 |   DTR\_GPIO11  DTR\_GPIO11  GPIO19  1K1%  EN 6  LED  7  R33  0R  R36  0R/NC  4  3  5  1  HT68F03C/SOP8  5V\_VDD  3  Vin  1  U4  KIA78L05   |  | | --- | | PA7/RES PA5 PA6 VDD  PA2 PA1 PA0  VSS |   U6  GND  GND  5V\_VDD  VIN  out  C85 C84  0.1uF 10uF  GND | | | | | | | | | | |
|  | B |
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| A | A |
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| Title | T260S | | | | |
| Size  B | Document Number  POWER\_SCH | | | | Rev  V17 |
| Date: Saturday , October 27 , 2018 | | | Sheet 1 of 1 | | |
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| 5 | | | 4 | | 3 | 2 | | | 1 | |
| D | **PCI-e** **Interface** **for** **SIM** **Card** | | | | | |  |  | | D |
| SIM\_PWR  57  GND  58  GND  59  GND  60  GND  61  GND  62  GND  63  GND  56  GND  55  GND  54  GND  53  GND  9  GND  1 2  2 1  2 3  ND 1  GND  RESET\_N  Reserved CLKREQ# GND REFCLK- REFCLK+ GND  Reserved Reserved GND PERn0  PERp0  GND  GND  PETn0  PETp0  GND  GND  +3.3V  +3.3V  VDD RST CLK NC  U2  VSS NC I/O NC  SIM  1.5 Vlot UIM PWR UIM\_DATA UIM\_CLK UIM\_RESET UIM\_VPP  GND W\_DISABLE# PERST# +3.3V  GND  1.5 Volt SMB CLK SMB Data GND USB\_D- USB\_D+ GND LED\_WWAN#  2  2 RESET\_N  式 SIM卡  PERST#1  R2 0  GND  3.3VD  GND Reserved Reserved Reserved Reserved  **TOP**  LED\_WLAN# LED\_WPAN# 1.5 Volt GND  +3.3V  **BOT**  +3.3V GND  WAKE# Reserved  GPIO13  高电平 有 效  DSR  SIM Card  抽屉  GND  R1 5.1K  W\_DISAB1LE  SIM\_PWR  3.3VD  GND  DM  DP  1  5  2  6  3  7  4  8  Q1  1 R5 2.2K  DTC114EKA  R6  4.7K  49  51  GND  PCIe\_MiniCard  U1  C1-VCC C5-vpp C2-RST C6-DATA C3-CLK C7-NC C4\_GND C8-NC  R4  44  46  48  50  52  1  2  3  4  6  5  2  4  6  8  10  12  14  16  18  20  22  24  26  28  30  32  34  36  38  40  9  GND  10  GND  GND  3.3VD GND  3.3VD    J1  5.1K  1  3  5  7  9  11  13  15  7  17  19  21  23  25  27  29  31  33  35  37  39  42  43  45  47  C1    0.1uF  GND  GND  GND      C2  0.1uF        GND | | | | | | J2  **TOP**  **BOT**  58  GND  WAKE# RESERVED RESERVED CLKREQ# GND REFCLK- REFCLK+ GND  RESERVED RESERVED  GND  PERn0  PERp0  GND  GND  PETn0  PETp0  GND  RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED  +3.3V GND +1.5V RESERVED RESERVED RESERVED RESERVED RESERVED  GND RESERVED PERST# +3.3Vaux GND  +1.5V SMB\_CLK SMB\_DATA GND USB\_D- USB\_D+ GND LED\_WWAN# LED\_WLAN# LED\_WPAN# +1.5V  DTR\_GPIO1131 DCD\_GPIO1233 GND 35  37  I2C\_SCLK  7.8.9.10  GP  DTR\_GPIO11  DCD\_GPIO12  I2C\_DATA I2C\_SCLK  DM DP  GPIO0  GND +3.3V  I2C\_DATA  UART\_RX  UART\_TX  GPIO19  GND  GND  GPIO14  GPIO13 DSR  DSR  GND  CTS  RTS  GND  41  GND  RXD  TXD  GND  CTS  3.3VD  LINK0  LINK4  4  6  8  10  12  14  16  18  20  22  24  26  28  30  49  GND 51  R17  4.7K  36  38  40  42  44  46  48  50  1  3  5  7  9  11  13  15  17  19  21  23  25  27  29  2  GND  LINK4  RXIM0  RXIP0  TXOM0  TXOP0  LINK0  RIN  TXOP4  TXOM4  RXIP4  RTS  RXIM4  GND  32  34  DM  DP  39  GPIO0  43  45  47  GND  52    GND  MiniCard\_Card-v11-half  **R** **T** **5** **3** **5** **0** 模组接口标识  J11 3.3VD      3 UART\_TX  4    4 HEADER GND | | |
| C | C |
|  | 2   |  | | --- | | SMA/UFLR |   3 1  TP7  PAD  CON1  GND    GND | 2   |  | | --- | | SMA/UFLR |   3 1  TP8  PAD  CON2  GND    GND | | |  |  | | --- | --- | | 12 | RXIM0 | | 6 | | 7 | RXIP0 | | 8 | TXOM0 | | 9 | | 10 | TXOP0 | |  |  |   16 PRXIM0 15  14 PRXIP0 13  12  11 PTXOM0 10  9 PTXOP0  SOC\_1.8VD GND  TXOP0 1  RXIP0 4  TX+ CT TX- NC  NC RX+ CT RX-  R14 49.9  3  TXOM0  2  11  RXIM0 5  RXIM0  R21 49.9 RXIP0  1  0.1uF  C25  T1  TD+ CT TD- NC  NC RD+ CT RD-  13  2  1  2  3  4  5  1   |  |  |  | | --- | --- | --- | | 12 |  | TXOP4 | | 6 |  | | 7 | T | XOM4 | | 8 |  | RXIP4 | | 9 |  | | 10 |  | RXIM4 | |  |  |  |  |  |  | | --- | --- | | TXOM4 | 1  2 | | TXOP4 | 3 | |  | 4 |   TXOM4 4  RXIM4 1  TD+ CT TD- NC  NC RD+ CT RD-  TX+ CT TX- NC  NC RX+ CT RX-  R25 49.9  1  R19 49.9  1  R23 49.9  1  3  RXIP4  2  11  TXOP4 5  PRXIP4  PRXIM4  C28  104/16V/X5R  C29  GND  13  15  14  13  12  11  10  9  2  2  2  5  RXIP4 6  7  RXIM4 8  GND  TVS\_RClamp2574N  0.1uF  GND  TVS\_RClamp2574N  PTXOM4  PTXOP4  SOC\_1.8VD GND  C32 C31  C30  GND  8  TXOM0  104/16V/X5R  R15 49.9  GND  SOC\_1.8VD SOC\_1.8VD  GND  U9  2  2  2  C24 0.1uF  2 1  T2  16   |  | | --- | | GND  GND GND  Line 4 in Line 4 out  Line 3 in Line 3 out  GND GND  Line 2 in Line 2 out  Line 1 in Line 1 out |   U8  0.1uF    GND HST-0041   |  | | --- | | GND  GND GND  Line 4 in Line 4 out  Line 3 in Line 3 out  GND GND  Line 2 in Line 2 out  Line 1 in Line 1 out |   C27  R22 49.9  1  6  7  R24 49.9 TXOP0  1  104/16V/X5R 104/16V/X5R  GND HST-0041  GND GND | | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  | 7  PTXOM0 6 | | | 5 | | | |  | |  | | PTXOP0 3 | | | | PRXIP0 2 | | | | PRXIM0 1 | | | |   10  11   |  | | --- | | 9  12 |   PAD PAD PAD PAD 8  RJ45  TP12 TP11 TP10 TP9   |  | | --- | | GNDS GNDS GNDS GNDS  NC NC RX- NC NC RX+ TX- TX+ |   J8  GND | |  |
| B | B |
| RJ45   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  | 7  PTXOM4 6 | | | 5 4  PTXOP4 3 | | | | PRXIP4 | | 2 | | PRXIM4 | | | 1 |  |  | | --- | | 11 | | 12 |   PAD PAD PAD PAD 8  10  9  TP15 TP16 TP14 TP13   |  | | --- | | GNDS GNDS GNDS GNDS  NC NC RX- NC NC RX+ TX- TX+ |     J9  GND | |
|  | TP19 TP20 TP21 TP22  PAD PAD PAD PAD      GND | | | | | | | | |  |
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| A |  | | | | | | | | | A |
|  |  | | | | | | | | |  |
| 5 | | | 4 | | 3 | 2 | | | 1 | |