

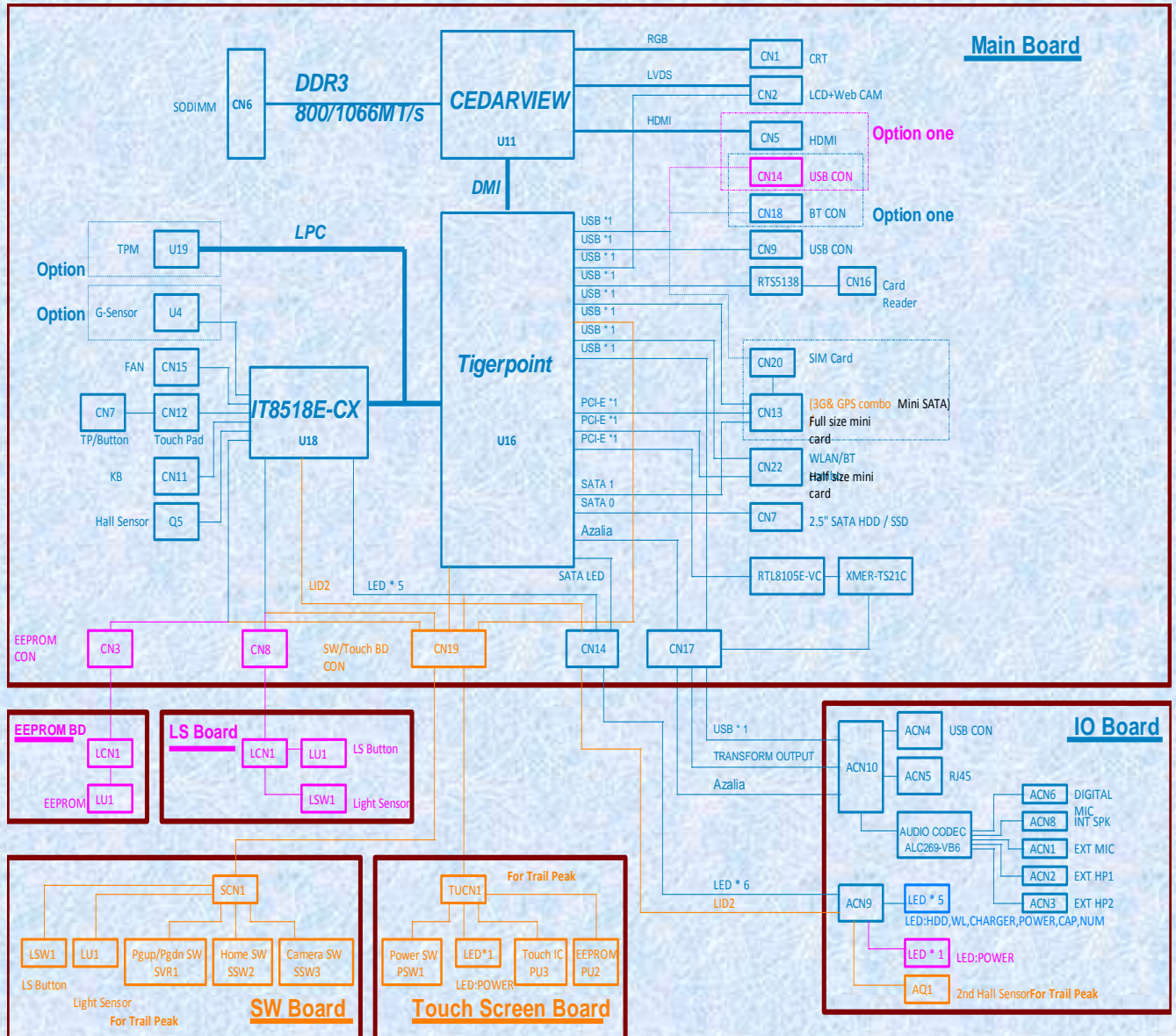
Notebook PC Service Manual

Model : ES10IS2

Chapter 2 Major Components

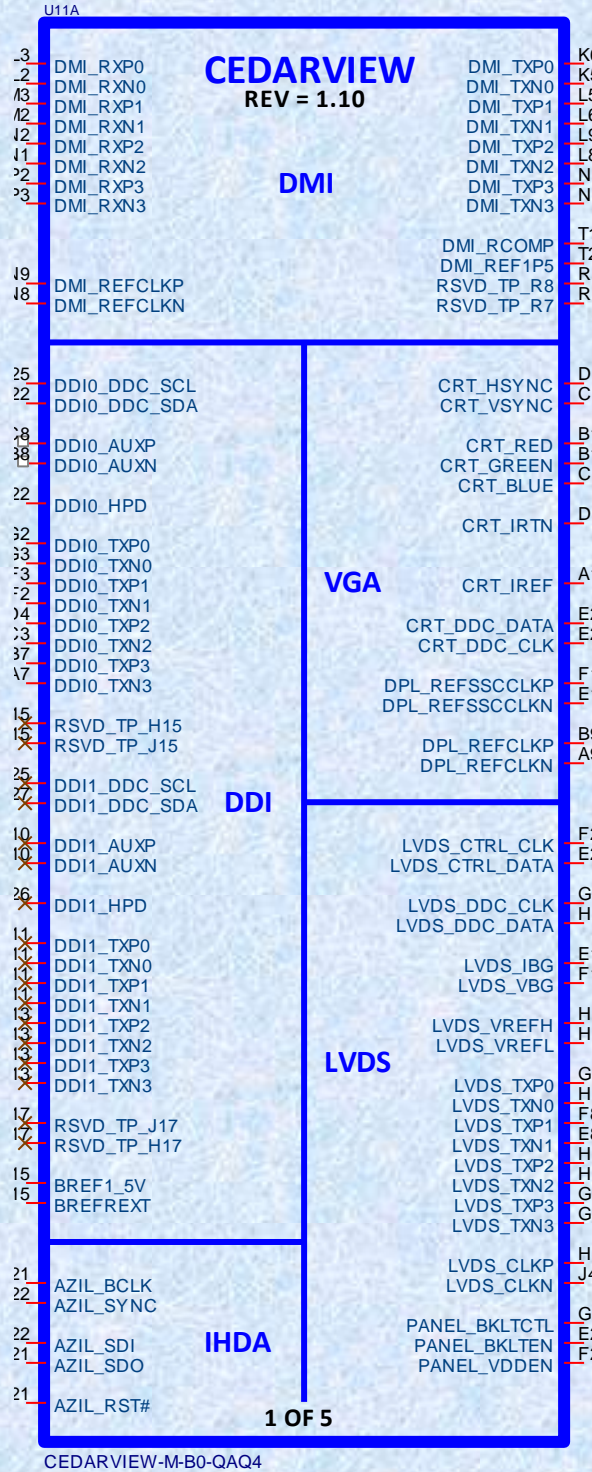
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2.1 System Block Diagram

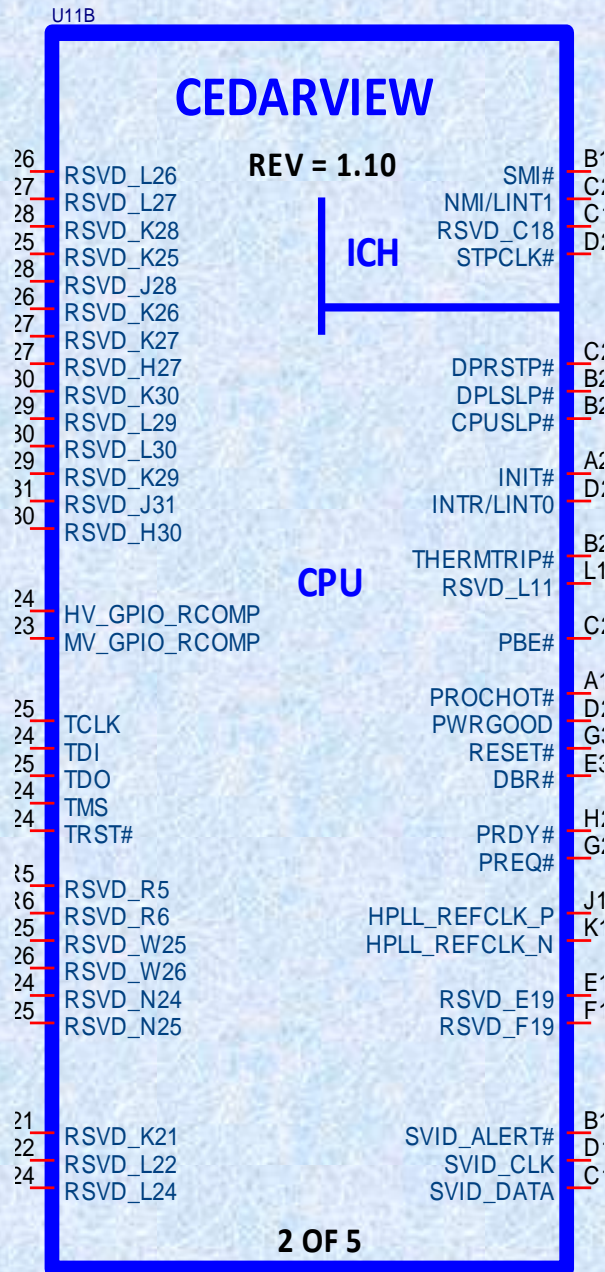


2.2 Major Components

CPU (U11A)

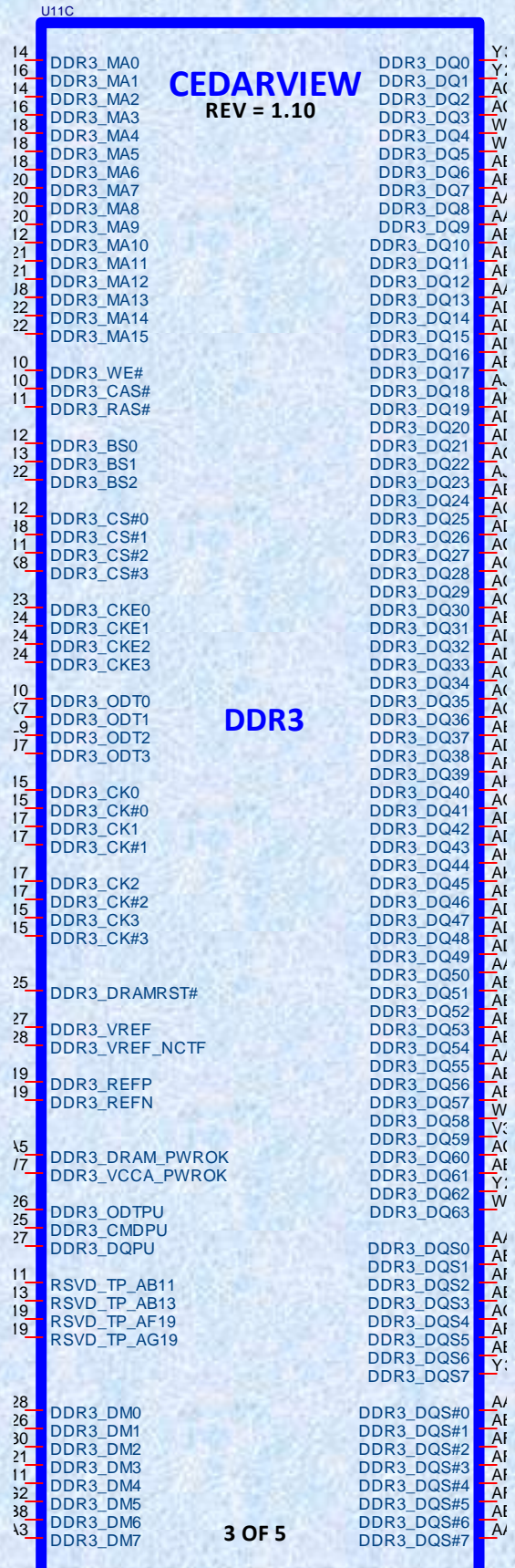


CPU (U11B)



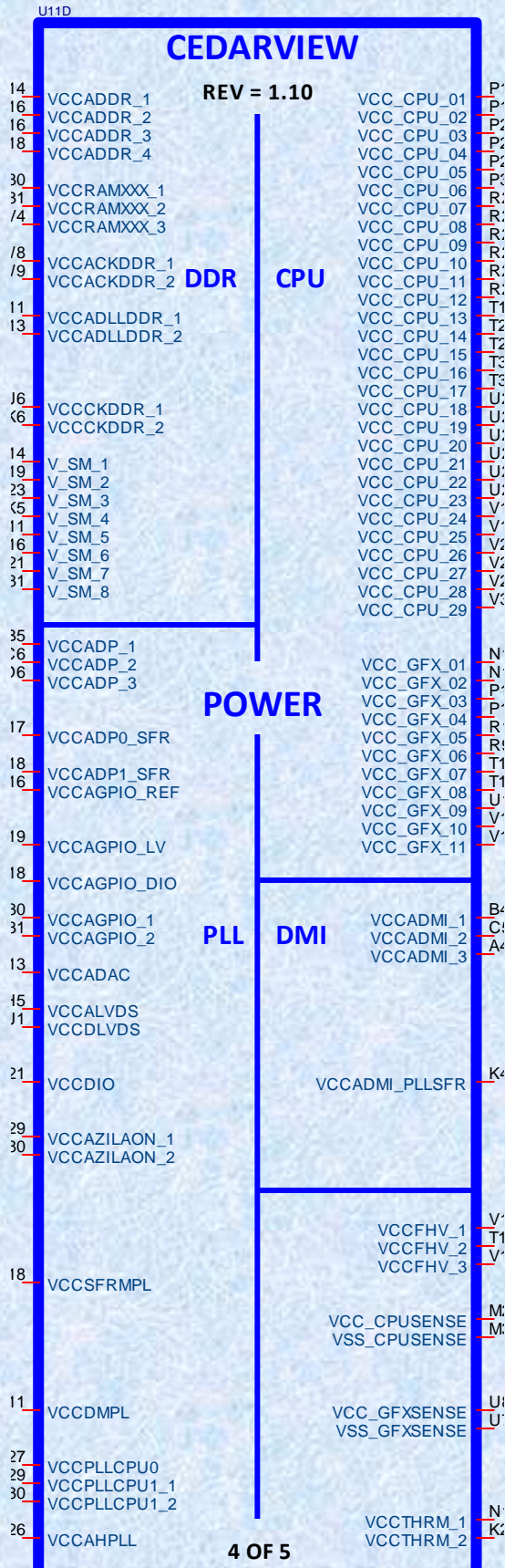
CEDARVIEW-M-B0-QA4

CPU (U11C)



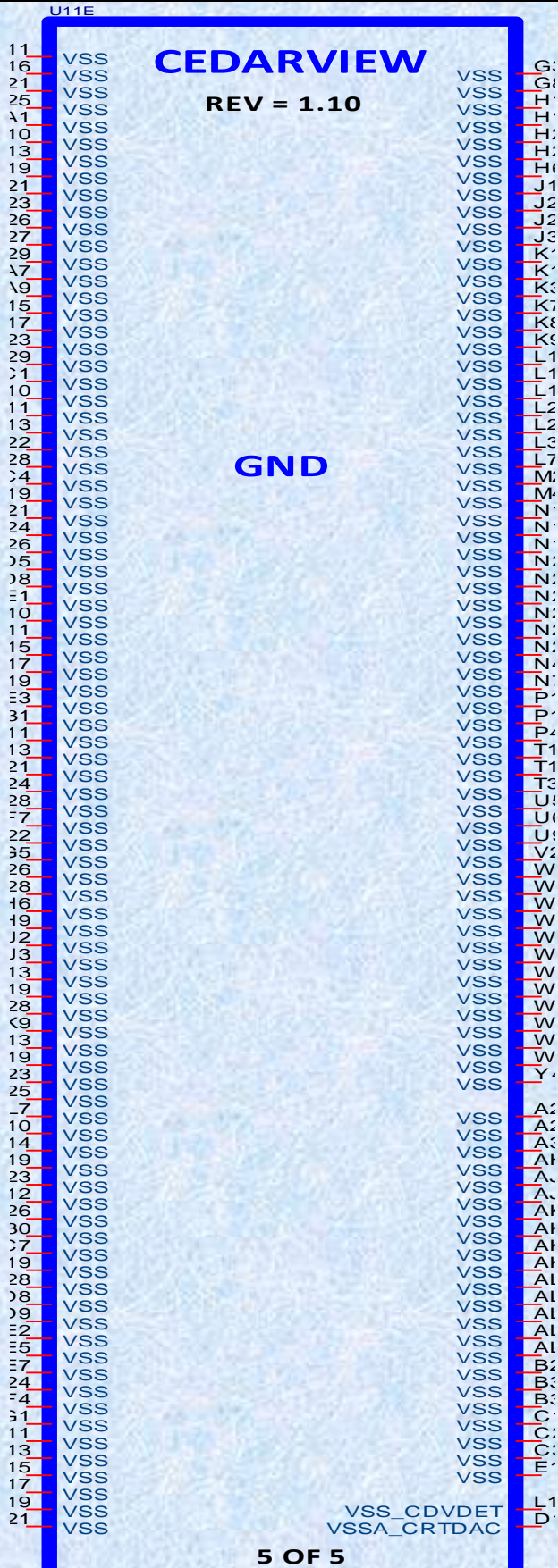
CEDARVIEW-M-B0-QA4

CPU (U11D)



CEDARVIEW-M-B0-QA04

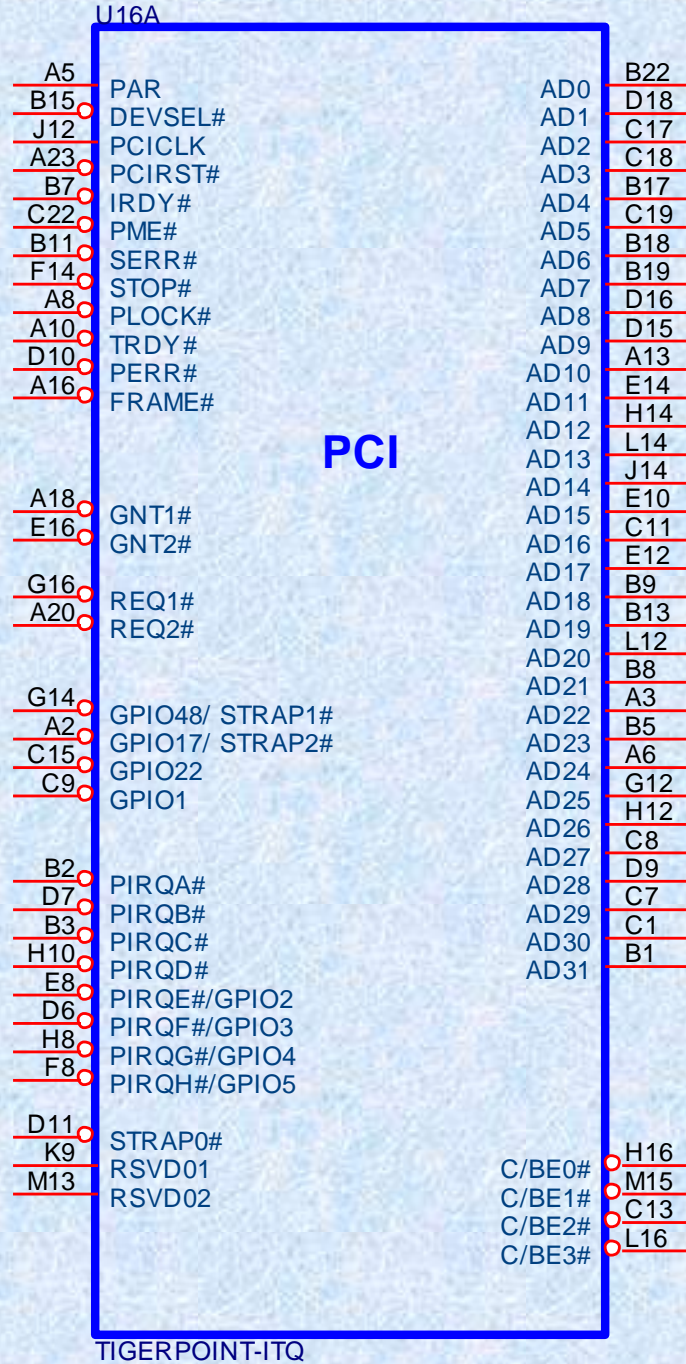
CPU (U11E)



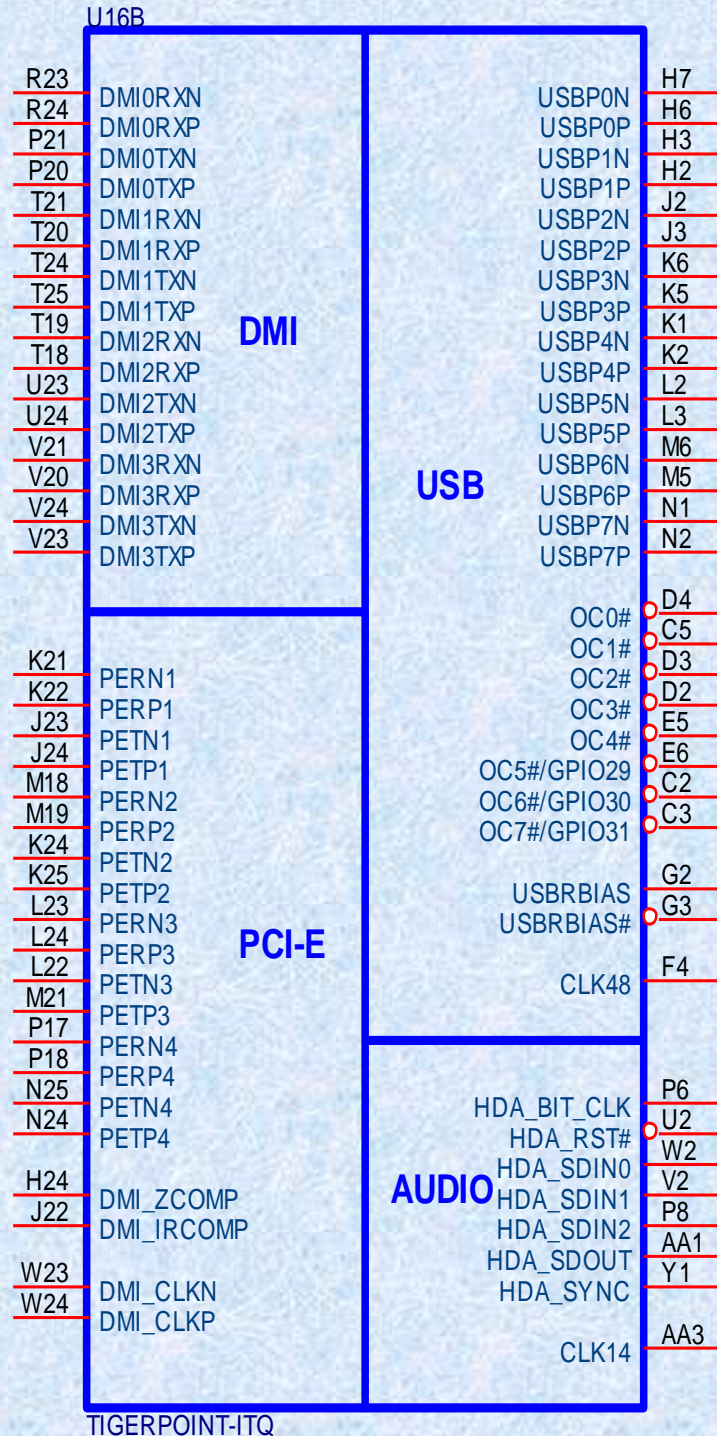
5 OF 5

CEDARVIEW-M-B0-QA4

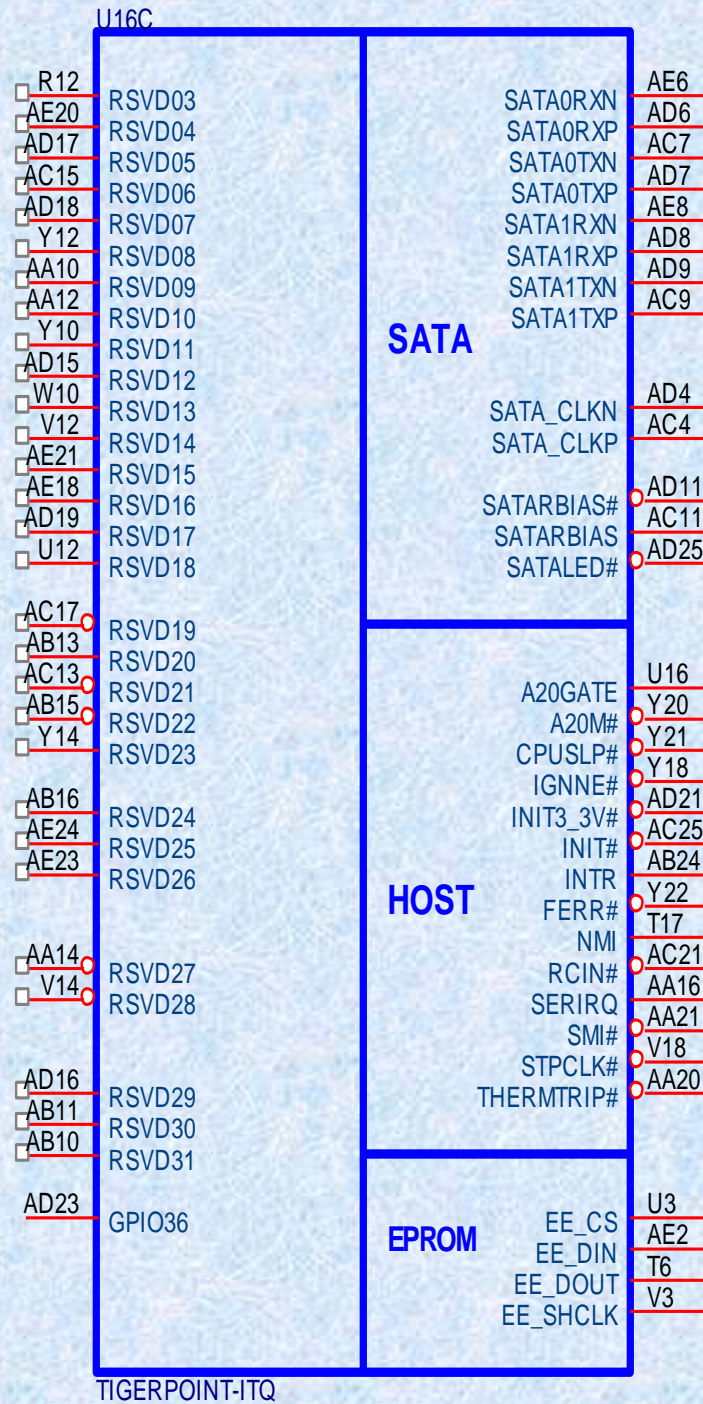
Tigerpoint SB (U16A)



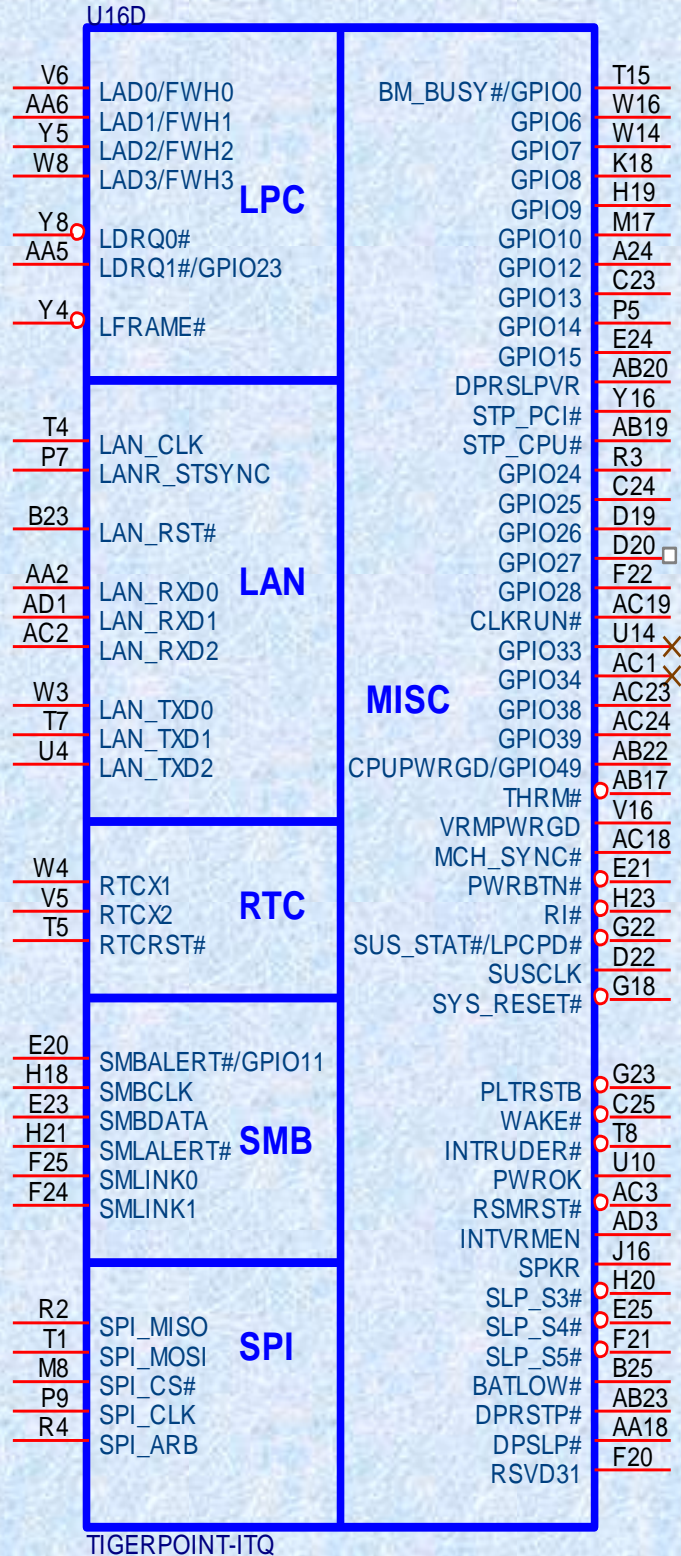
Tigerpoint SB (U16B)



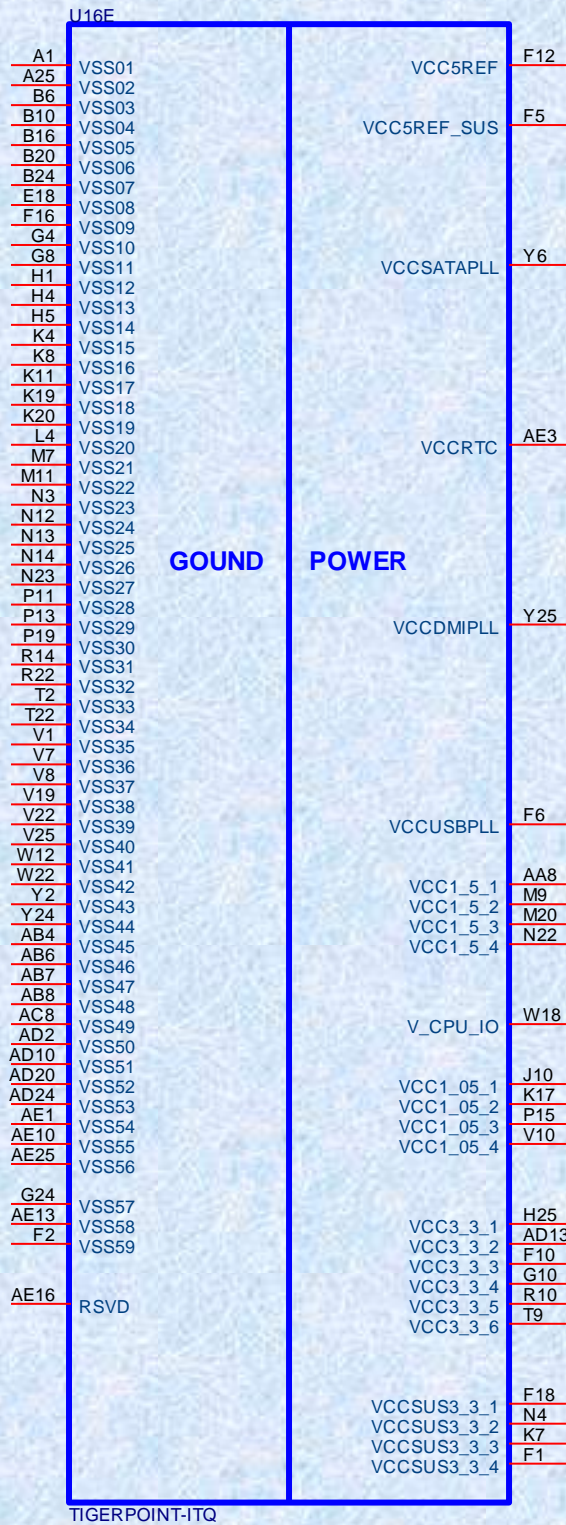
Tigerpoint SB (U16C)



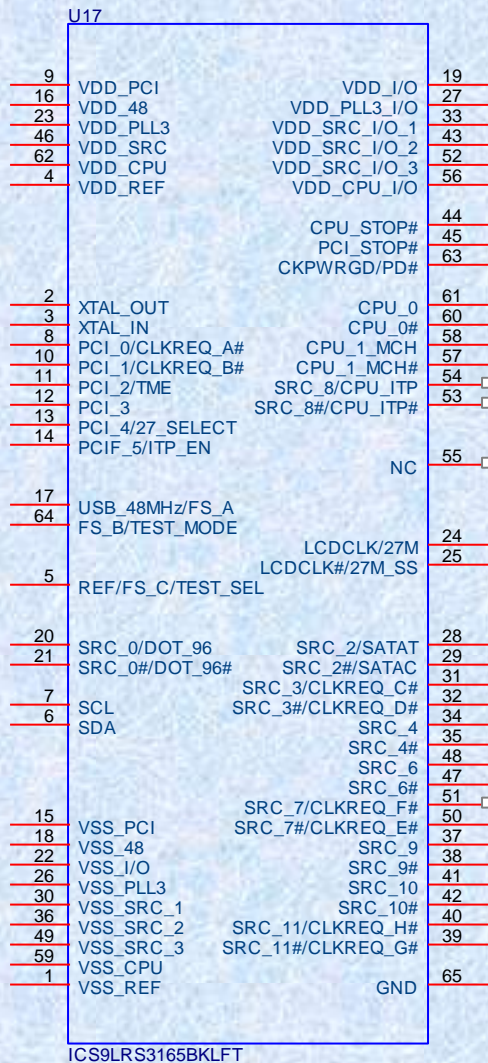
Tigerpoint SB (U16D)



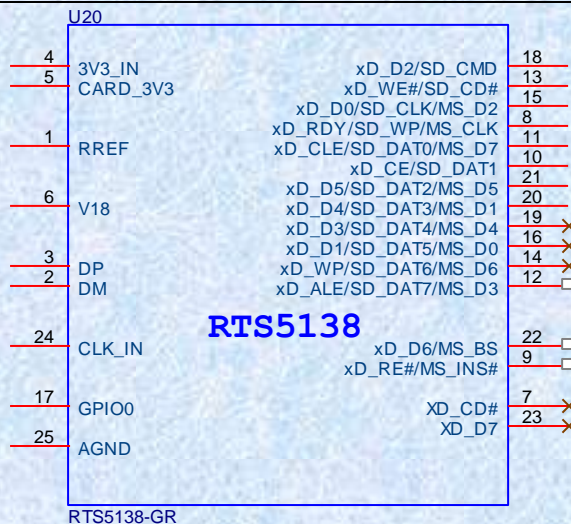
Tigerpoint SB (U16E)



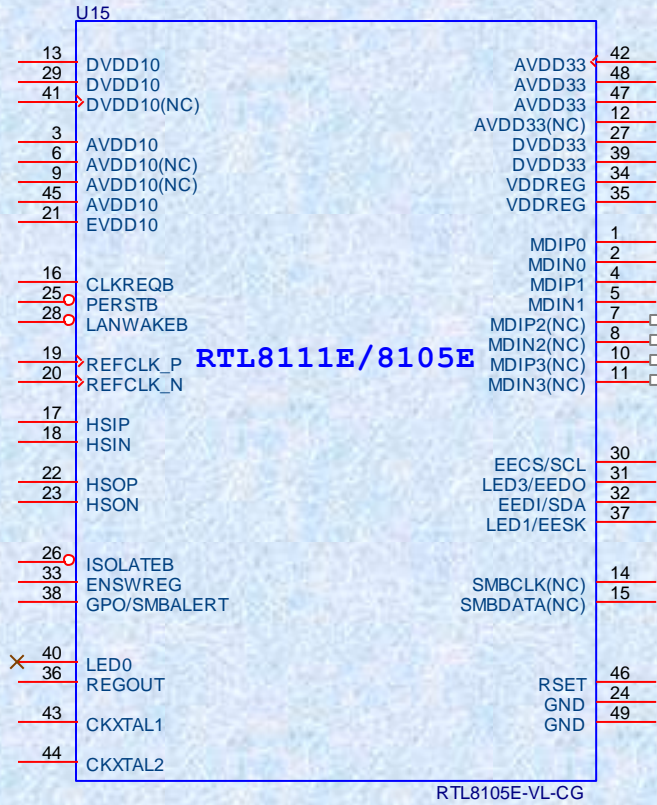
Clock IC (U17)



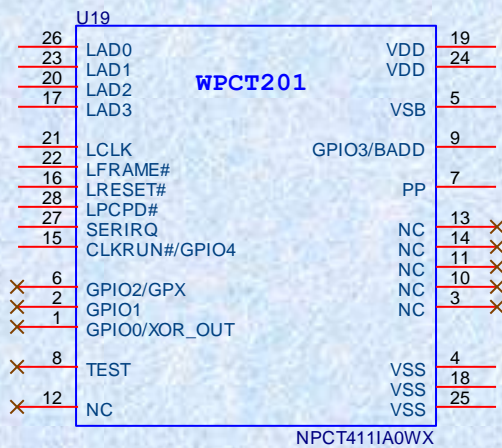
Card Reader (U20)



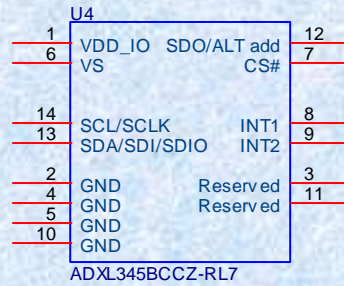
LAN Control IC (U15)



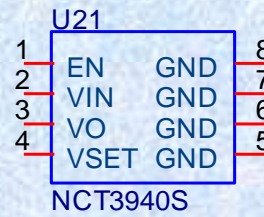
TPM IC (U19)



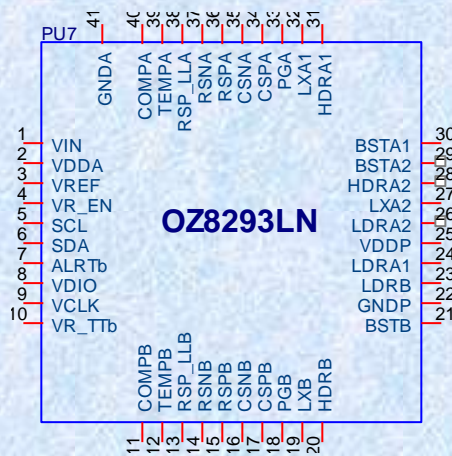
G-Sensor (U4)



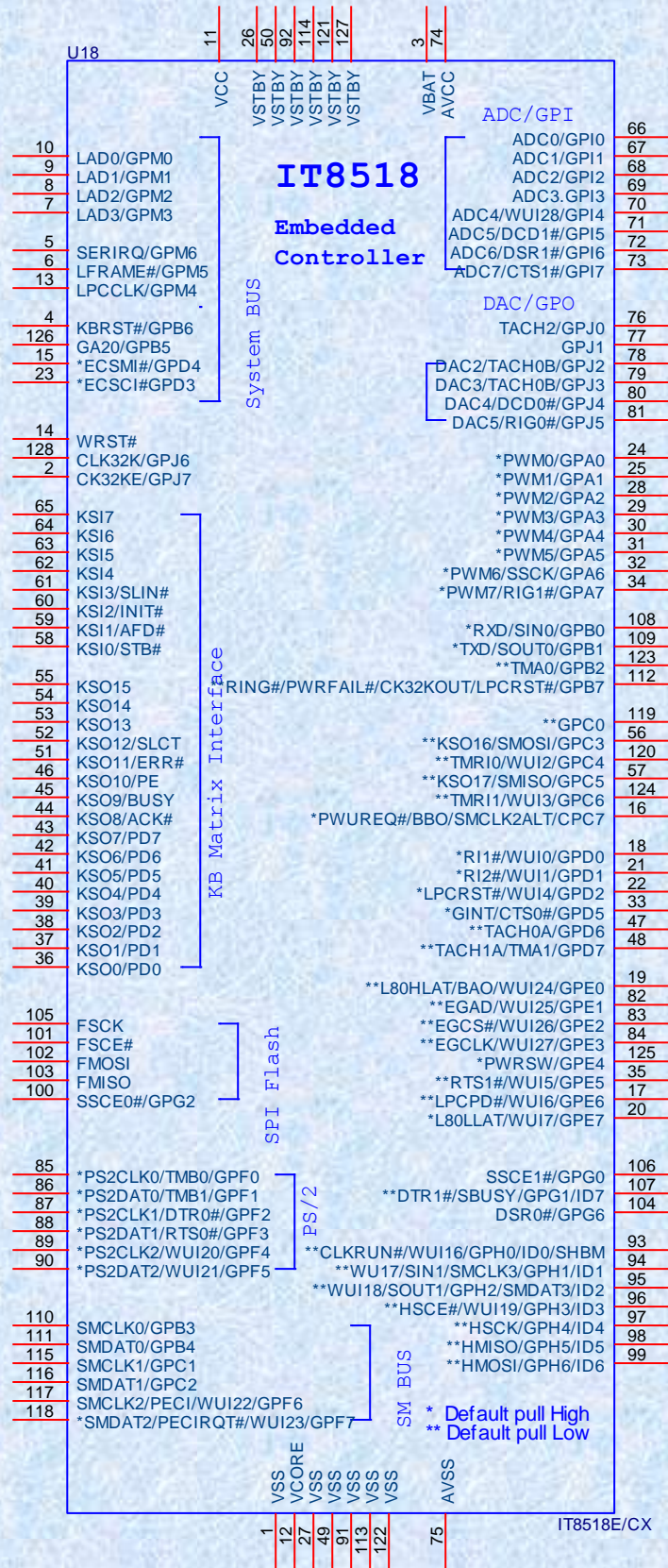
FAN Control (U21)



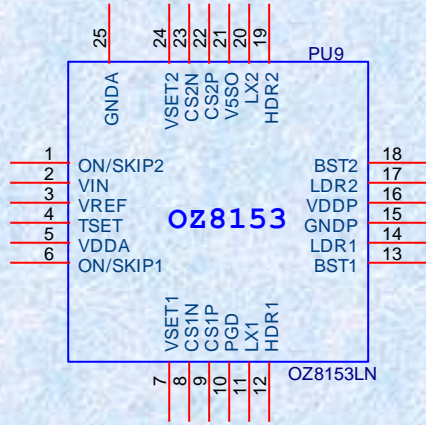
Voltage Core (PU7)



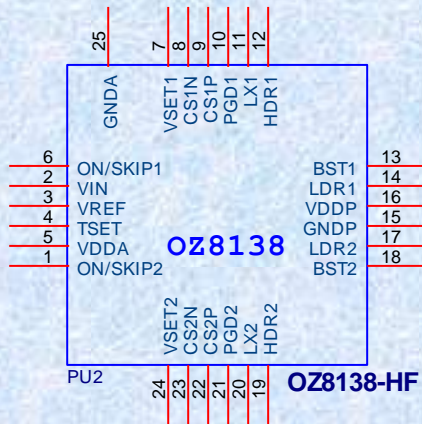
EC Control IC (U18)



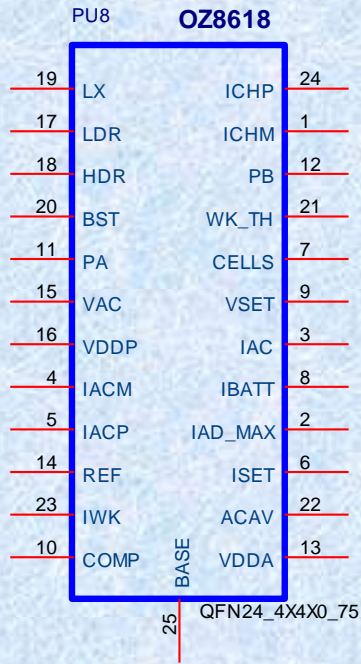
OZ8153 (PU9)



OZ8138 (PU2)



DC IN /Charger (PU8)



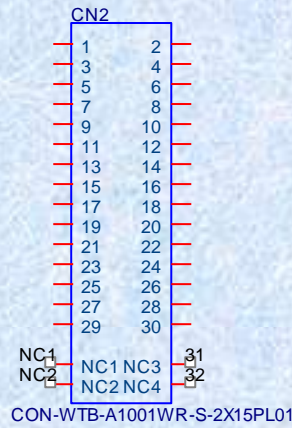
2.3. Connectors Definition

DDR3 CONN (CN6)

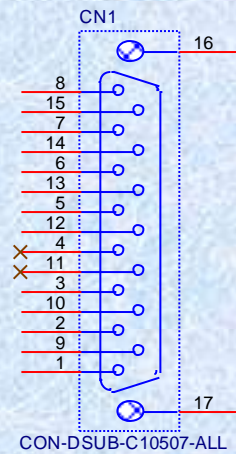
| Pin | Signal | Pin | Signal |
|-----|--------|-----|---------|
| 98 | A0 | 125 | NC/TEST |
| 97 | A1 | 30 | RESET# |
| 96 | A2 | 126 | VREF_CA |
| 95 | A3 | 198 | TS# |
| 92 | A4 | 77 | NC1 |
| 91 | A5 | 122 | NC2 |
| 90 | A6 | 197 | SA0 |
| 86 | A7 | 201 | SA1 |
| 89 | A8 | 200 | SDA |
| 85 | A9 | 202 | SCL |
| 107 | A10/AP | 109 | BA0 |
| 84 | A11 | 108 | BA1 |
| 83 | A12 | 79 | BA2 |
| 119 | A13 | 114 | S0# |
| 80 | A14 | 121 | S1# |
| 78 | A14 | 11 | DM0 |
| 199 | NC/A15 | 28 | DM1 |
| | VDDSPD | 46 | DM2 |
| 75 | VDD | 63 | DM3 |
| 76 | VDD | 136 | DM4 |
| 81 | VDD | 153 | DM5 |
| 82 | VDD | 170 | DM6 |
| 87 | VDD | 187 | DM7 |
| 88 | VDD | 113 | WE# |
| 93 | VDD | 115 | CAS# |
| 94 | VDD | 110 | RAS# |
| 99 | VDD | 73 | CKE0 |
| 100 | VDD | 74 | CKE1 |
| 105 | VDD | 101 | CK0 |
| 106 | VDD | 102 | CK1 |
| 111 | VDD | 103 | CK#0 |
| 112 | VDD | 104 | CK#1 |
| 117 | VDD | 12 | DQS0 |
| 118 | VDD | 29 | DQS1 |
| 123 | VDD | 47 | DQS2 |
| 124 | VDD | 64 | DQS3 |
| | | 137 | DQS4 |
| | | 154 | DQS5 |
| | | 171 | DQS6 |
| | | 188 | DQS7 |
| | | 10 | DQS#0 |
| | | 27 | DQS#1 |
| | | 45 | DQS#2 |
| | | 62 | DQS#3 |
| | | 135 | DQS#4 |
| | | 152 | DQS#5 |
| | | 169 | DQS#6 |
| | | 186 | DQS#7 |
| | | 116 | ODT0 |
| | | 120 | ODT1 |
| | | 1 | VREF_DQ |
| | | 203 | VTT |
| | | 204 | VTT |
| | | 185 | VSS |
| | | 189 | VSS |
| | | 190 | VSS |
| | | 195 | VSS |
| | | 196 | VSS |
| | | 2 | VSS |
| | | 3 | VSS |
| | | 8 | VSS |
| | | 9 | VSS |
| | | 13 | VSS |
| | | 14 | VSS |
| | | 19 | VSS |
| | | 20 | VSS |
| | | 25 | VSS |
| | | 26 | VSS |
| | | 31 | VSS |
| | | 32 | VSS |
| | | 37 | VSS |
| | | 38 | VSS |
| | | 43 | VSS |
| | | 44 | VSS |
| | | 48 | VSS |
| | | 49 | VSS |
| | | 54 | VSS |
| | | 55 | VSS |
| | | 60 | VSS |
| | | 61 | VSS |
| | | 65 | VSS |
| | | 66 | VSS |
| | | 71 | VSS |
| | | 72 | VSS |
| | | 127 | VSS |
| | | 128 | VSS |
| | | 133 | VSS |
| | | 134 | VSS |
| | | 138 | VSS |
| | | 139 | VSS |
| | | 144 | VSS |
| | | 145 | VSS |
| | | 150 | VSS |
| | | 151 | VSS |
| | | 155 | VSS |
| | | 156 | VSS |
| | | 5 | DQ0 |
| | | 7 | DQ1 |
| | | 15 | DQ2 |
| | | 17 | DQ3 |
| | | 4 | DQ4 |
| | | 6 | DQ5 |
| | | 16 | DQ6 |
| | | 18 | DQ7 |
| | | 21 | DQ8 |
| | | 23 | DQ9 |
| | | 33 | DQ10 |
| | | 35 | DQ11 |
| | | 22 | DQ12 |
| | | 24 | DQ13 |
| | | 34 | DQ14 |
| | | 36 | DQ15 |
| | | 39 | DQ16 |
| | | 41 | DQ17 |
| | | 51 | DQ18 |
| | | 53 | DQ19 |
| | | 40 | DQ20 |
| | | 42 | DQ21 |
| | | 50 | DQ22 |
| | | 52 | DQ23 |
| | | 57 | DQ24 |
| | | 59 | DQ25 |
| | | 67 | DQ26 |
| | | 69 | DQ27 |
| | | 56 | DQ28 |
| | | 58 | DQ29 |
| | | 68 | DQ30 |
| | | 70 | DQ31 |
| | | 129 | DQ32 |
| | | 131 | DQ33 |
| | | 141 | DQ34 |
| | | 143 | DQ35 |
| | | 130 | DQ36 |
| | | 132 | DQ37 |
| | | 140 | DQ38 |
| | | 142 | DQ39 |
| | | 147 | DQ40 |
| | | 149 | DQ41 |
| | | 157 | DQ42 |
| | | 159 | DQ43 |
| | | 146 | DQ44 |
| | | 148 | DQ45 |
| | | 158 | DQ46 |
| | | 160 | DQ47 |
| | | 163 | DQ48 |
| | | 165 | DQ49 |
| | | 175 | DQ50 |
| | | 177 | DQ51 |
| | | 164 | DQ52 |
| | | 166 | DQ53 |
| | | 174 | DQ54 |
| | | 176 | DQ55 |
| | | 181 | DQ56 |
| | | 183 | DQ57 |
| | | 191 | DQ58 |
| | | 193 | DQ59 |
| | | 180 | DQ60 |
| | | 182 | DQ61 |
| | | 192 | DQ62 |
| | | 194 | DQ63 |
| | | 161 | VSS |
| | | 162 | VSS |
| | | 167 | VSS |
| | | 168 | VSS |
| | | 172 | VSS |
| | | 173 | VSS |
| | | 178 | VSS |
| | | 179 | VSS |
| | | 184 | VSS |

DDR-8795-00L4-5180

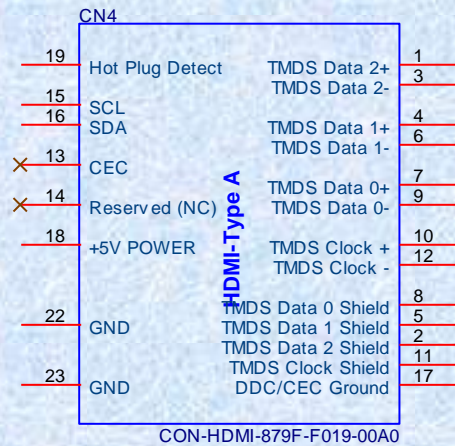
LCD+WEB CONN (CN2)



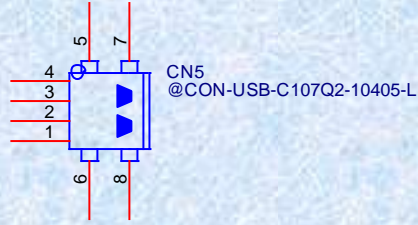
CRT CON(CN1)



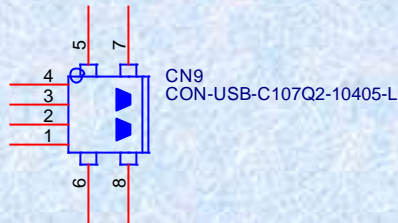
HDMI CON(CN4)



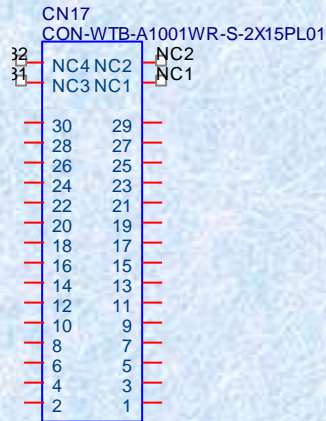
USB/HDMI Port CON(CN5)



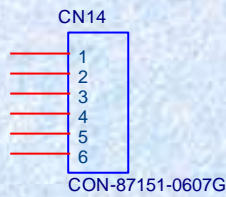
USB CON(CN9)



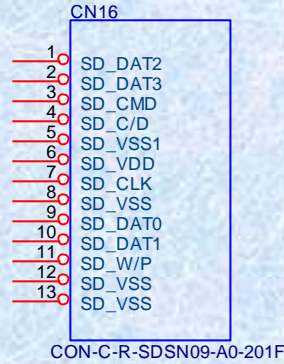
I/O CON(CN17)



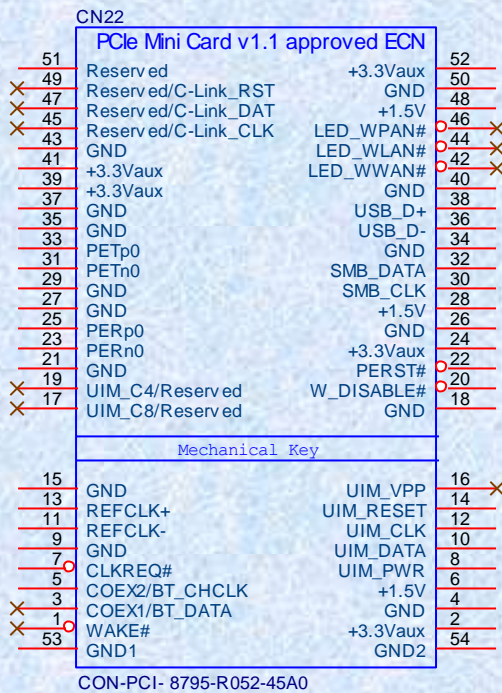
LED CON(CN14)



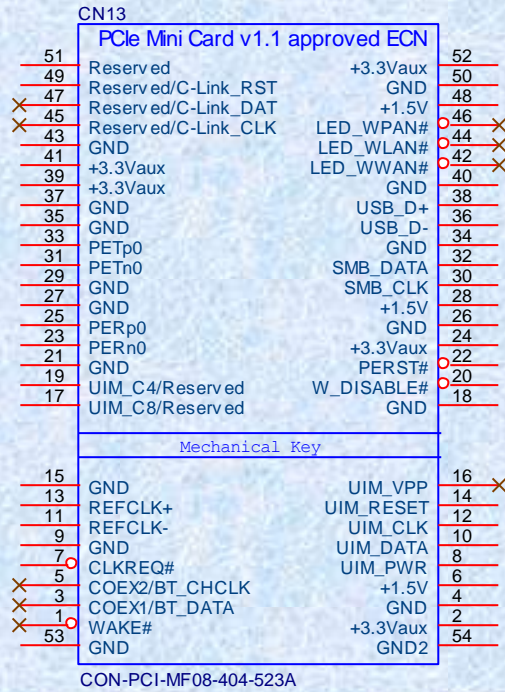
SD/MMC Card CON(CN16)



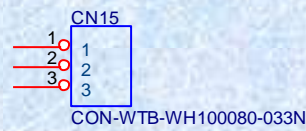
Mini Card CON(CN22)



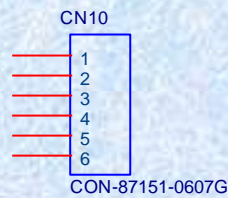
Mini Card_3G CON(CN13)



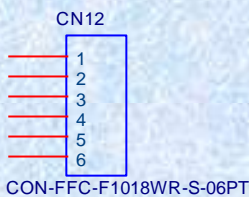
FAN CON(CN15)



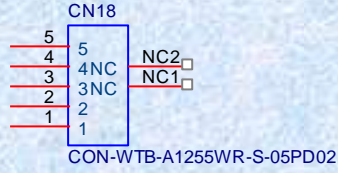
Touch PAD Button CON(CN10)



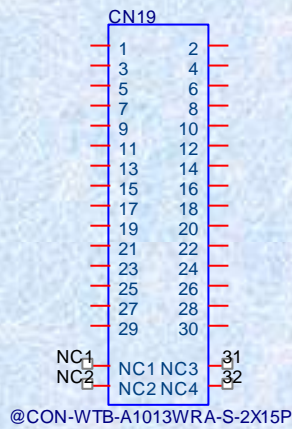
Touch PAD CONN(CN12)



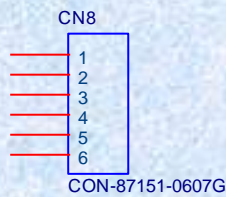
Bluetooth CONN(CN18)



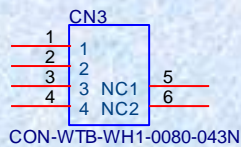
Trial Peak CONN(CN19)



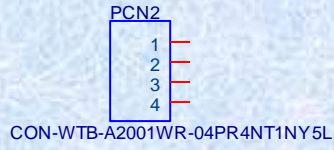
Configure Sensor/Quick Key CONN(CN8)



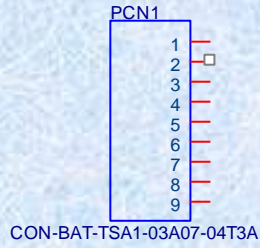
EEPROM CON(CN3)



DC_IN CON(PCN2)



BAT_IN CON(PCN1)



2.4. Major Components and Connectors Location

