



ANTRICA

encoders | decoders

ANT-1776ZB Pinout and Connectors



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Overview

The hardware specifications for the ANT-1776ZB board are the following:

- Quad-Core ARM® Cortex A53 processor up to 1.6GHz per core
- 6GB LPDDR4 @ 4000MHz
- Hailo-8 AI Accelerator.
- 32GB eMMC storage on Board and microSD slot up to 1TB.
- 2 camera simultaneous support (LVDS AND CAMERA-LINK OR CVBS)
- Multi-stream-capable HD video engine delivering H.265/4 1080p60 decode,1080p60 encode and Recording.
- Ethernet 1000Mbps
- USB3.0 Type-C OTG
- USB3.0 Type-C Host
- HDMI -OUT
- Audio mic& speaker
- RS232
- General Purpose I/O for Device Control

Electrical Characteristics

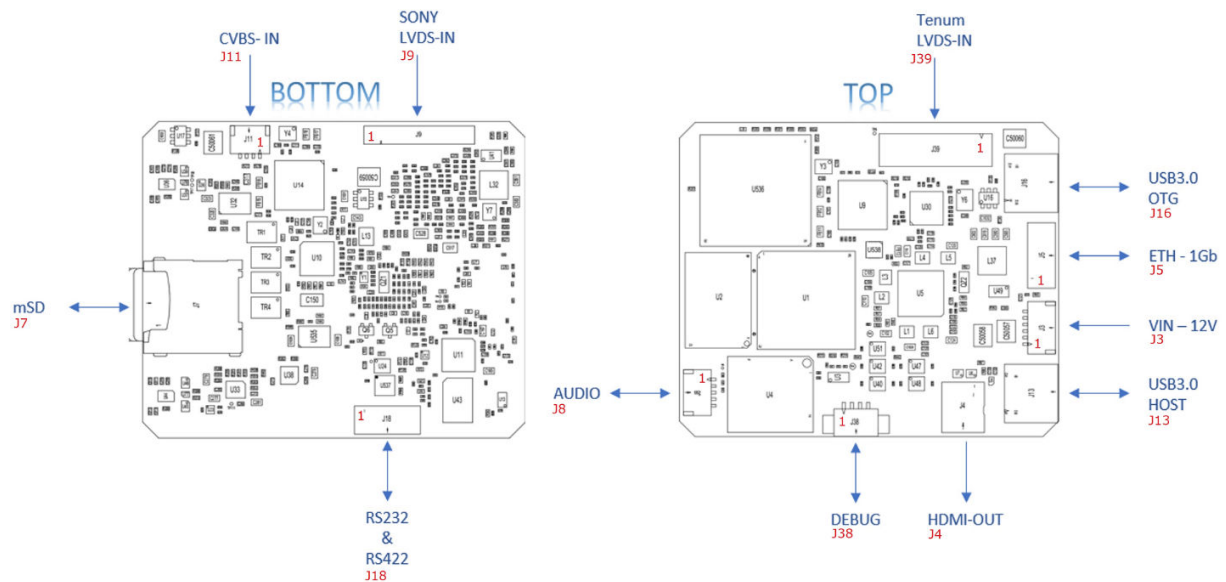
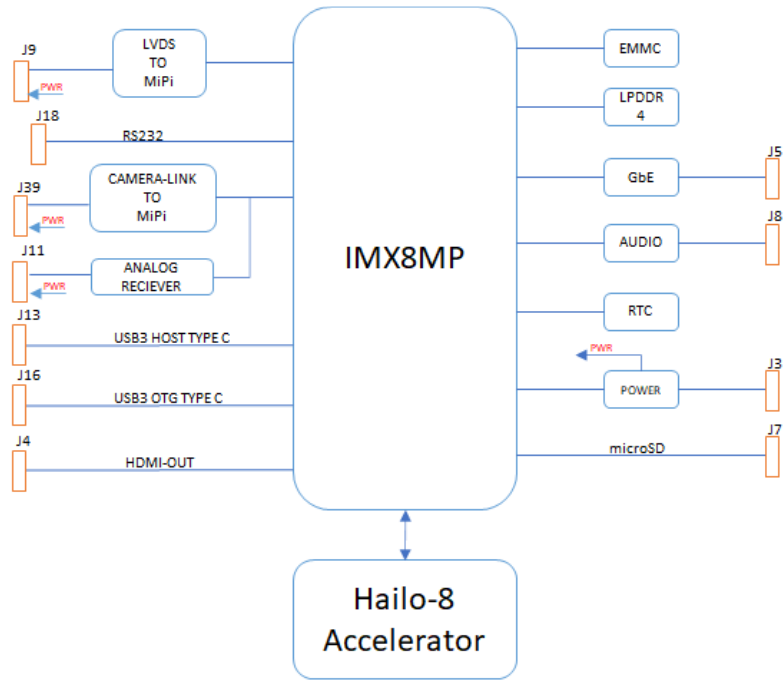
| Parameter | Min | Typ | Max | Unit |
|--------------------|-----|-----|-----|------|
| Main Input Voltage | 5 | 12 | 15 | V |
| Power Consumption | - | 5* | - | W |
| Operating Temp | -40 | | +85 | C |
| CPU Clock | - | 1.6 | - | GHz |

*Not include camera power consumption.

Connector Details

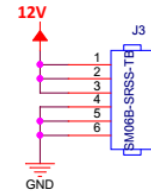
| REF | COMPANY MANUFACTURING | PN | NOTE |
|-----|-----------------------|------------------|-------------|
| J3 | JST | SM06B-SRSS-TB | POWER |
| J7 | MOLEX | 5031820853 | mSD |
| J4 | MOLEX | 467650302 | HDMI_OUT |
| J5 | JST | SM08B-SRSS-TB | ETHERNET1 |
| J8 | JST | SM05B-SRSS-TB | AUDIO |
| J38 | MOLEX | 53261-0471 | Terminal |
| J9 | KEL Corporation | USL00-30L-A | SONY CAM |
| J13 | JAE Electronics | DX07S024JA2R1200 | USB3.0 OTG |
| J16 | JAE Electronics | DX07S024JA2R1200 | USB3 HOST |
| J39 | JST | BM30B-SRDS-G-T | CAMERA-LINK |
| J11 | JST | SM04B-SRSS-TB | PAL/NTSC-IN |
| J18 | JST | SM08B-SRSS-TB | RS232 |

Block Diagram

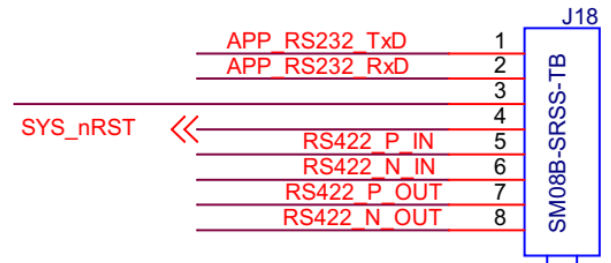


Pinout

| J3 POWER | |
|------------|--------|
| Pin Number | Signal |
| 1-3 | VIN |
| 4-6 | GND |



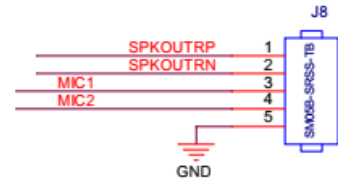
| J18 I/F | |
|------------|-----------|
| Pin Number | Signal |
| 1 | RS232_TXD |
| 2 | RS232_RX |
| 3 | GND |
| 4 | SYS_RSTn |
| 5 | N.C |
| 6 | N.C |
| 7 | N.C |
| 8 | N.C |



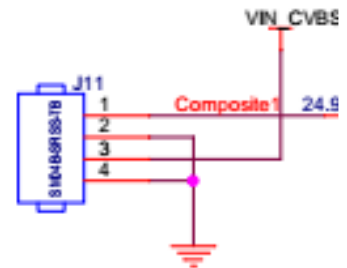
| J5 ETHERNET | |
|-------------|--------|
| Pin Number | Signal |
| 1 | TX0_P |
| 2 | TX0_N |
| 3 | TX1_P |
| 4 | TX1_N |
| 5 | TX2_P |
| 6 | TX2_N |
| 7 | TX3_P |
| 8 | TX3_N |



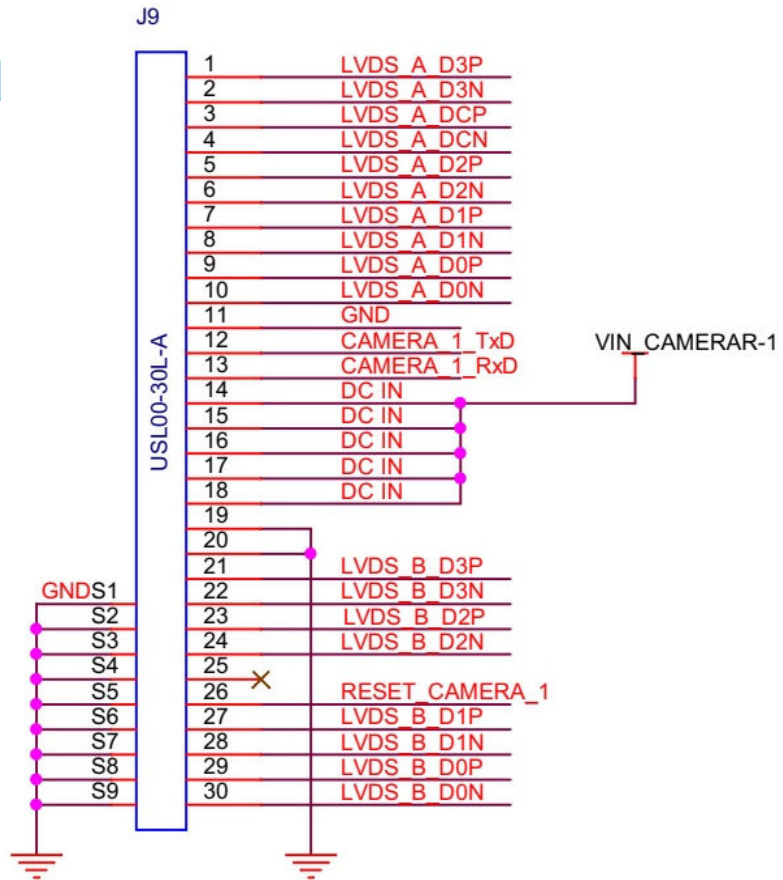
| J8 AUDIO | |
|------------|-----------|
| Pin Number | Signal |
| 1 | SPEAKER_P |
| 2 | SPEAKER_N |
| 3 | MIC1 |
| 4 | MIC2 |
| 5 | GND |



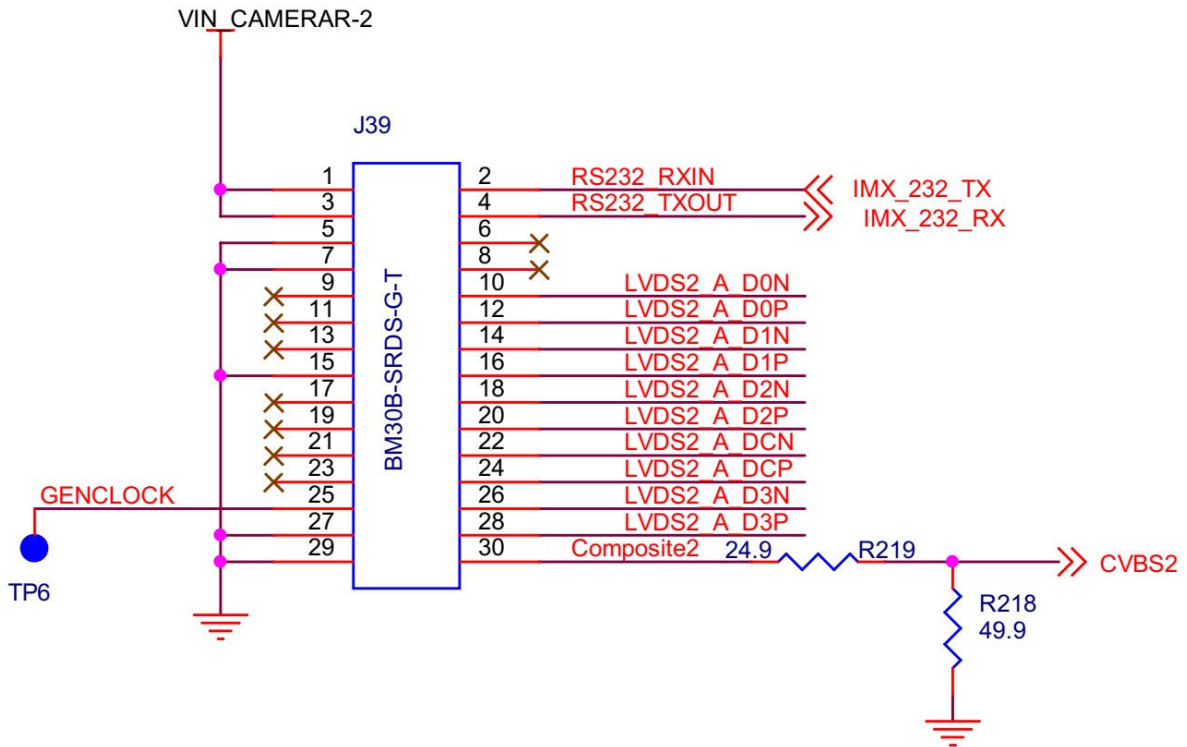
| J11 PAL/NTSC IN | |
|-----------------|---------------------------|
| Pin Number | Signal |
| 1 | Analog Video -IN |
| 2 | GND |
| 3 | Power for camera (2W max) |
| 4 | GND |



J9 Sony LVDS



J39 Tenum LVDS



Mounting

The overall dimensions of the ANT-1776ZB board are 58x48mm.

