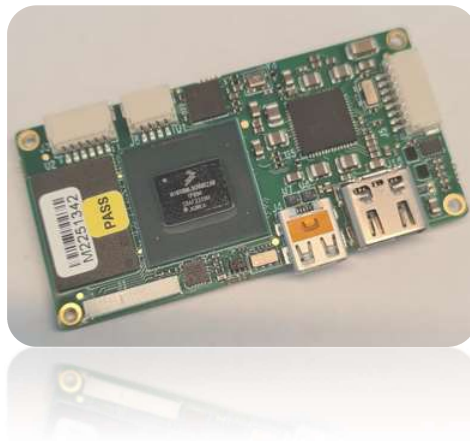


ANT-1776 NANO Pinout and Connector Data



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Overview

The hardware specifications for the Jupiter-mini board are the following:

- Quad-Core ARM® Cortex A53 processor up to 1.6GHz per core
- 6GB LPDDR4 @ 4000MHz
- 32GB eMMC storage on Board
- 2 camera opt ports (4xcomposite or 2xHD-SDI or 2xHDMI any combination)
- Multi-stream-capable HD video engine delivering H.265/4 1080p60 decode,1080p60 encode
- 1 Port Ethernet 1000Mbps
- USB3.0 Type-C
- Audio mic& speaker
- 2xUART
- General Purpose I/O for Device Control

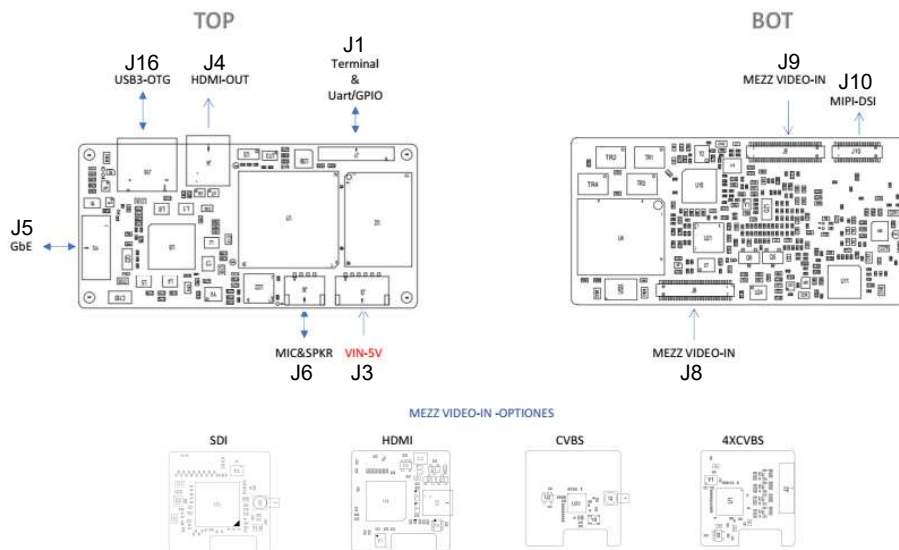
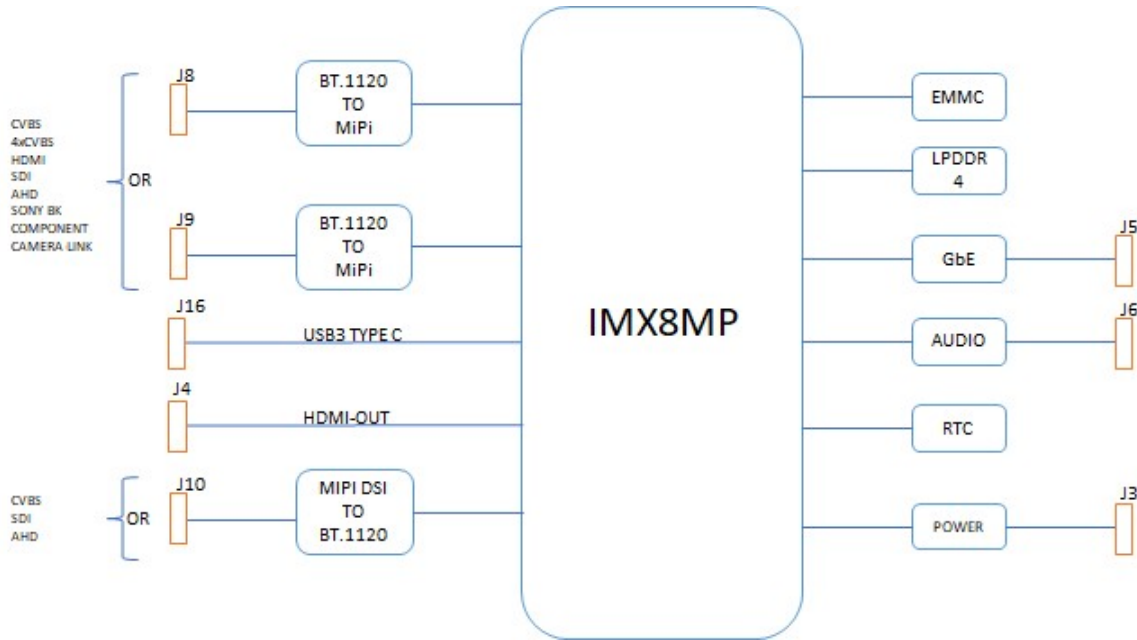
Electrical Characteristics

Parameter	Min	Typ	Max	Unit
Main Input Voltage	-	5	-	V
Power Consumption	-	3.5	-	W
Operating Temp	-40		+85	C
CPU Clock	-	1.6	-	GHz

Connector Details

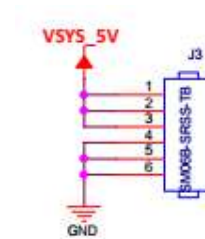
REF	COMPANY MANUFACTURING	PN	NOTE
J3	JST	SM06B-SRSS-TB	POWER
J1	JST	SM16B-XSRS-ETB	I/F
J4	MOLEX	467650302	HDMI_OUT
J5	JST	SM08B-SRSS-TB	ETHERNET
J6	JST	SM04B-SRSS-TB	AUDIO
J10	Hirose	DF40C-30DP-0.4V	MIPI-DSI
J8-J9	Hirose	DF40C-50DP-0.4V	MEZZ-IN
J16	JAE Electronics	DX07S024JA2R1200	USB3.0 OTG

Block Diagram

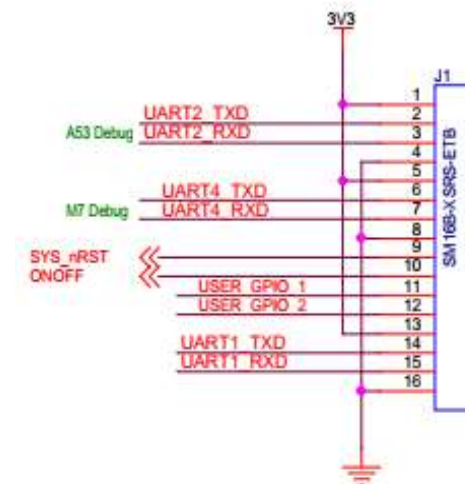


Pinout

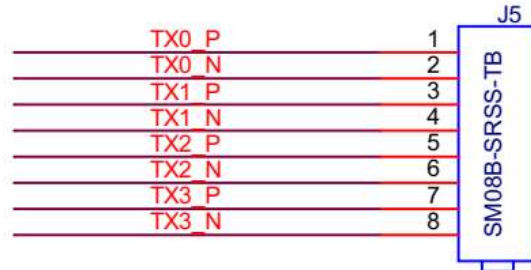
J3 POWER	
Pin Number	Signal
1-3	VIN
4-6	GND



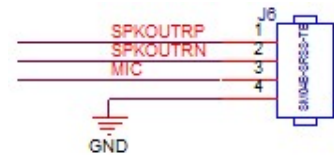
J1 I/F	
Pin Number	Signal
1	3.3V
2	TERMAINL_TX
3	TERMAINL_RX
4	GND
5	3.3V
6	UART4_TX
7	UART4_RX
8	GND
9	SYS_RST
10	ON/OFF
11	USER GPIO 1
12	USER GPIO 2
13	3.3V
14	UART1_TX
15	UART1_RX
16	GND



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



J6 AUDIO	
Pin Number	Signal
1	SPEAKER_P
2	SPEAKER_N
3	MIC
4	GND



Mounting

The overall dimensions of the JUPITER Nano board are 50x25mm.

