



LINUX MPU SMART BOARD

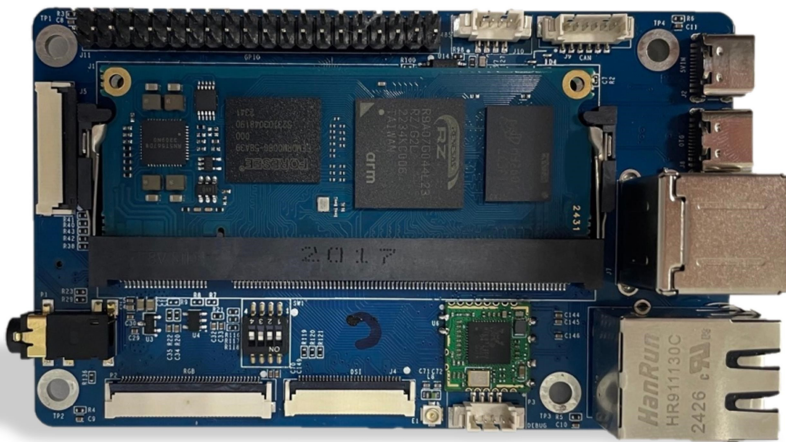
Entry-Level 64 Bit MPUs ideal for HMI, IoT and Edge AI processing

XMP200A 搭載Renesas 多核心高效率處理器, 搭載了圖形生成引擎, 並且配備了豐富的介面, 可用於各種嵌入式系統及應用程式的開發, 方便於開發者進行開發使用.

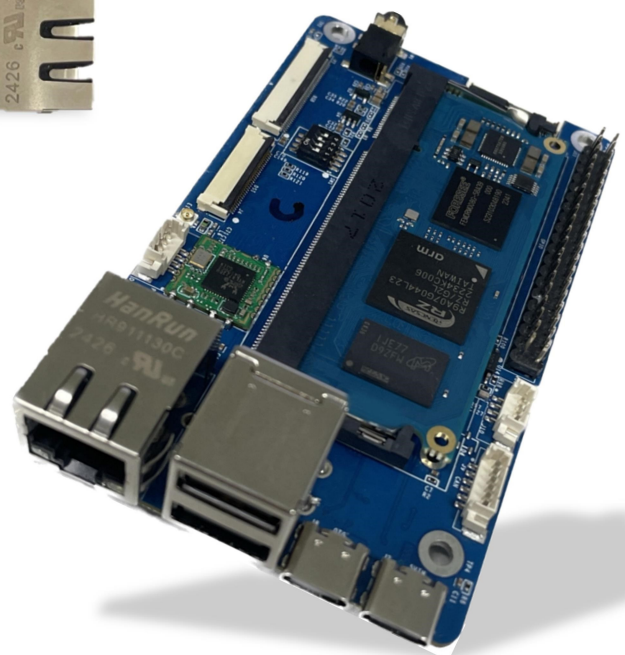
XMP200A is equipped with Renesas multi-core high-efficiency processor, a graphics generation engine, and is also equipped with rich interface to be used for the development of various embedded systems and applications, making it convenient for developers to develop and use.

Features

- ◆ Equipped with Renesas' original Dynamically Reconfigurable Processor (DRP) technology
- ◆ Equipped with Arm 2× Cortex®-A55 (1.2GHz), Cortex®-M33 (200MHz)
- ◆ 3D graphics function (Arm® Mali™-G31)



- ◆ Built-in 16-bit DDR3L/DDR4-1600 (in line ECC)
- ◆ MIPI-CSI camera interface
- ◆ Ethernet
- ◆ Audio In/Out
- ◆ USB2.0 host / function interface
- ◆ CAN
- ◆ RS485





XINSUN DISPLAY INTEGRATION

DISPLAY SOLUTION INTEGRATED PROVIDER

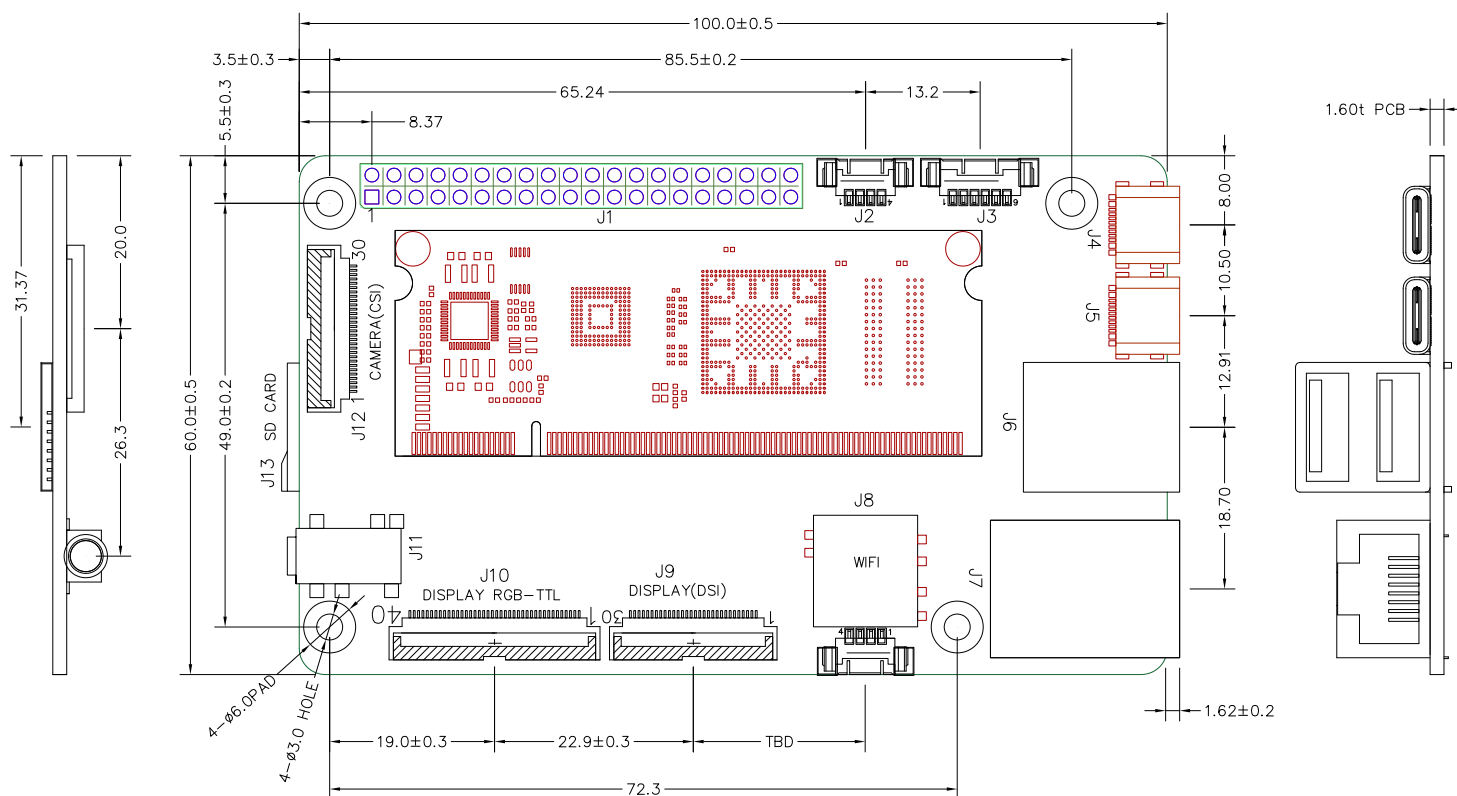
<https://www.xsdisplays.com/> TEL:+886-3-6587011



Specifications

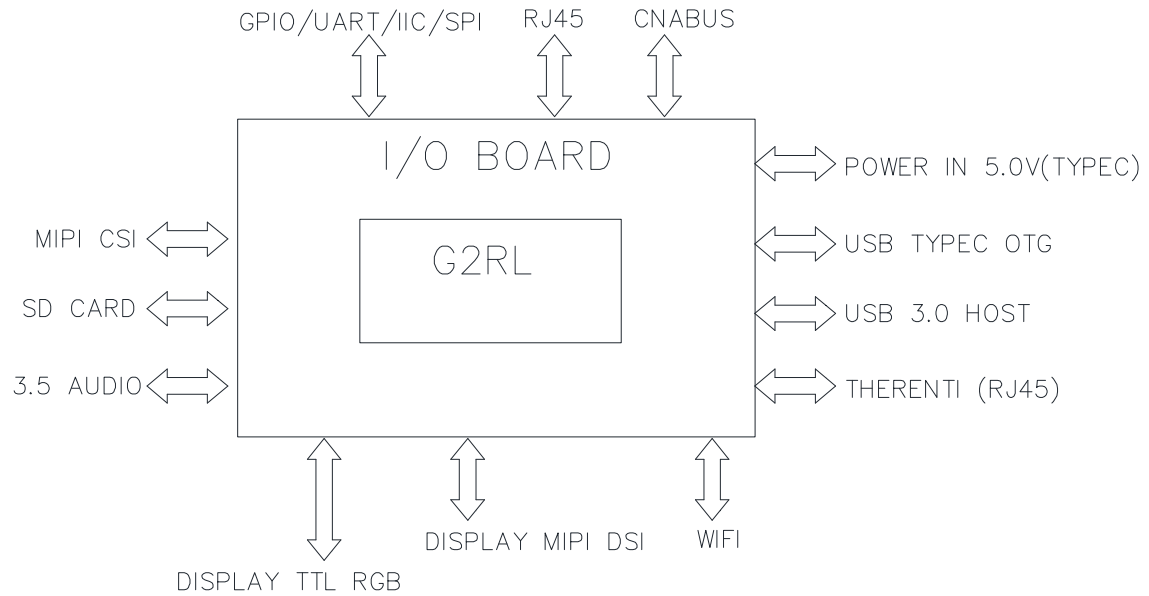
MPU	Renesas RZ/G2L
CPU	1.2 GHz Arm® Cortex®-A55 Dual / Single MPCore cores 200-MHz Arm® Cortex®-M33 core 500-MHz Arm® Mali™-G31
Memory	DDR4-1600 / DDR3L-1333 with 16 bits
Ethernet	10/100/1000 Base-T RJ45
USB	Type C*1
SD CARD	Micro SD Card memory
Video Input	MIPI-CSI 4Lane*1
Video Output	MIPI-DSI 4Lane*1
Display Interface	24Bits TTL(RGB)
GPIO/SPI/UART/IIC	40Pin (Pitch 2.54mm)
CANBUS	2 GROUPS
RS485	1 GROUP
RTC	Standard equipment (external power supply required)
OS	Linux

Drawing

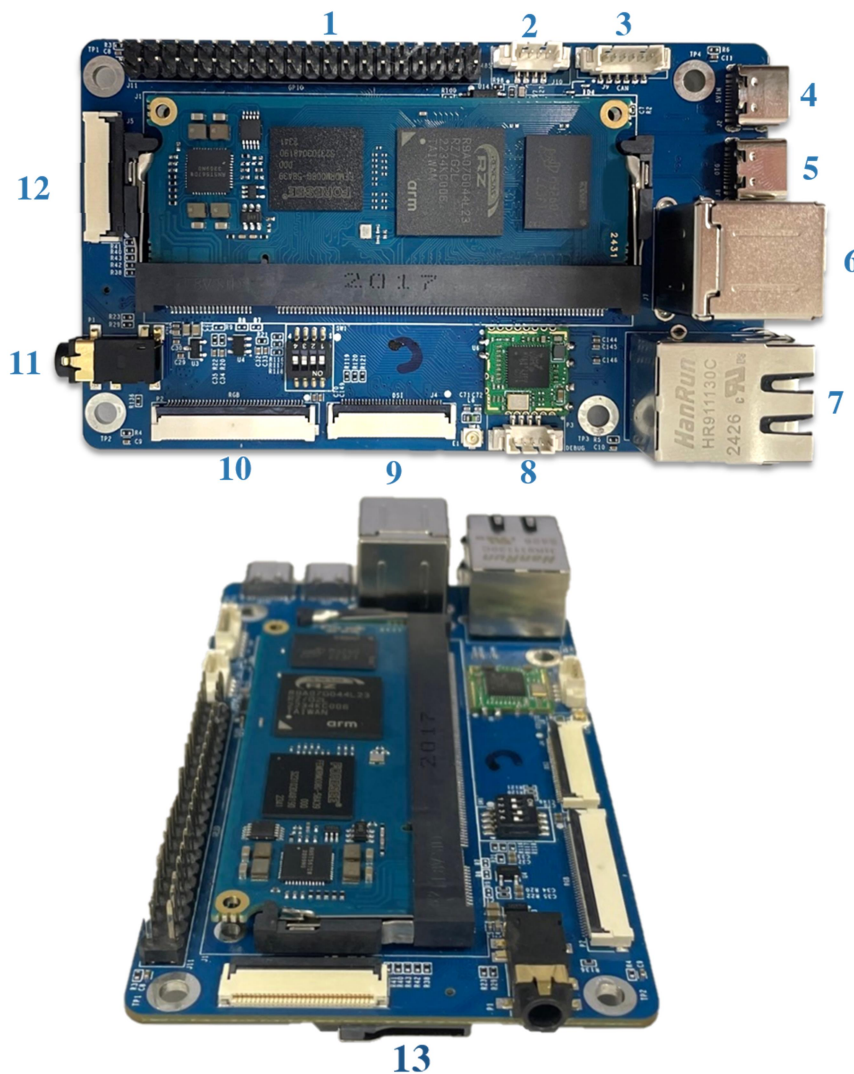




Block Diagram



Pin Assignment

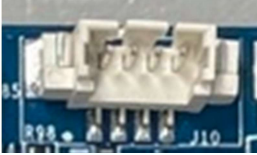




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Pin No.	Description	Pins Pictures
1	GPIO	
2	RJ45	
3	CANBUS	
4	5V POWER IN	
5	USB TYPE C	
6	USB 3.0	
7	THERENTI RJ45	
8	WIFI	
9	MIPI I/F	
10	TTL I/F	
11	Audio	
12	MIPI Wifi	
13	SD Card	