

RZ Ecosystem Partner Solution

Weathink RZ/G2L CORE BOARD



Solution Summary

The G2L core board is based on Renesas' industrial-grade Arm® RZ/G2L processor family design, Cortex-A55 architecture, running at 1.2GHz. All components of the core board are industrial grade, and the operating temperature of the whole board can reach -40°C ~ +85°C. This core board can benefit for customer to rapidly development in industrial applications.

Features/Benefits

- CPU: Renesas G2L
- Architecture: Cortex A55 x 2+ Cortex M33
- Frequency: 1.2GHz
- Memory: 2GB DDR4 industrial grade
- Flash : 16MB SPI flash, 8GB eMMC
- Operating System: Linux
- Interface mode: Stamp hole

Diagrams / Graphics



Target Markets and Applications

- Multi-media Display
- Display + System Control Terminal
- Industrial 4.0
- Medical Equipment
- Edge Computing Equipment

<https://www.weathink.cn/products/hexinban/4.html#>

Weathink RZ/G2L Core Board:



ARM Cortex A55 G2L 1.2GHZ	-40°C~+85°C
eMMC Flash 8Gbyte	-40°C~+85°C
QSPI Flash 16Mbyte	-40°C~+85°C
DDR4 512Mbyte	-40°C~+85°C
DC DC	-40°C~+85°C

-40°C~+85°C	DC DC
-40°C~+85°C	Gbit PHY
-40°C~+85°C	DC DC
-40°C~+85°C	DDR4 512Mbyte

Weathink Core Board SW Parameter:

U-Boot版本	u-boot-2011.09	
内核版本	Linux-4.19 (完全开源)	
烧写方式	SD卡快速烧写	
开发环境	Ubuntu18.04	
支持驱动	网卡驱动(双1000M/100M)	RTC实时时钟驱动
	LED驱动	音频驱动 (IIS接口)
	LCD RGB驱动	SPI驱动
	USB2.0接口驱动	串口(含5个串口)
	PWM驱动 (背光)	按键驱动
	FlashECC校验	摄像头驱动
	eMMC Flash驱动	MIPI DSI显示驱动
	文件系统	AD驱动
	SD卡驱动	RS485驱动
	LCDFrameBuffer	CAN驱动
	精准触摸驱动(电容)	I2C驱动

Learn more: <https://www.weathink.cn/products/hexinban/4.html#>