

Release Note

EBC-RS03

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ABSTRACT

This document describes how to test for SI/POWER/QA with RISC i.mx platform.

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1. Hardware Information

		Low End	High End
Processor System	CPU	NXP i.MX6 Dual Lite MCIMX6U5DVM10AD	NXP i.MX6 Quad MCIMX6Q5EYM10AD
Memory	Technology	DDR3 800 MHz	DDR3 1066 MHz
	Capacity	On-board DDR3 1GB	On-board DDR3 2GB
	Flash	8GB eMMC NAND Flash for O.S. 4 MB SPI NOR Flash for ADV Loader	16GB eMMC NAND Flash for O.S. 4 MB SPI NOR Flash for ADV Loader
Ethernet	RJ45	2 (1 from Standard Microsystem LAN7500-ABZJ)	2 (1 from Standard Microsystem LAN7500-ABZJ)
	Speed	10/100/1000 Mbps	10/100/1000 Mbps
WatchDog Timer		Yes	Yes
Display	HDMI	-	1 (1920x1080 micro HDMI)
I/O	USB	1 USB 2.0 Type A	1 USB 2.0 Type A
	UART	1 UART 3-pin for Debug	1 UART 3-pin for Debug
	SDIO	1 SDIO for SD slot	1 SDIO for SD slot
	Serial Port	2 RS-485, 1 w/isolation, both w/floating control	2 RS-485, 1 w/isolation, both w/floating control
	DO	3 digital output, 24V, no isolation	3 digital output, 24V, no isolation
	Button	1 button connect to GPIO	1 button connect to GPIO
Indicator	LED	1 bi-color LED, green and red; 1 green LED for system power	1 bi-color LED, green and red; 1 green LED for system power
Onboard I/O Expansion	PCIe	M.2 (NGFF) slot Key E , reserved for WiFi module	M.2 (NGFF) slot Key E , reserved for WiFi module
	NFC	I2C NTAG	I2C NTAG
	SD Socket	1 SD Slot	1 SD Slot
	Antenna Hole	1 Antenna Hole	1 Antenna Hole
Power	Power Supply Voltage	+24V	+24V
	Power Type	DC-in	DC-in
Certifications	Operational	CE/FCC Class B	CE/FCC Class B

Environment	Operational Temperature	0 ~ 60° C	0 ~ 60° C
	Storage Temperature	-40~85° C	-40~85° C
	Operating Humidity	5%~95% Relative Humidity, non-condensing	5%~95% Relative Humidity, non-condensing

2. Software Information

- Release Contents
 - ◆ This document contains important information about the package contents, supported features, known issues and limitations in this release. This release contains the latest updates for the last general availability (GA) release.
- OS: Linux Yocto Project 2.1 (Krogoth) 4.1.15-2.0.0_ga
- U-Boot: 2016.03
- Linux OS Kernel and Device Trees: 4.1.15
- Advantech SUSI API built in

3. Release Version

Rev	Date	Description	Remark	Released by
V8430	2017/12/20	The first release	Alpha release	Tim

4. Image Build

- CPU core is i.MX6 Dual Lite
 - ◆ The machine code of EBC-RS03 is [imx6dlebcrs03a1](#)
- CPU core is i.MX6 Quad
 - ◆ The machine code of EBC-RS03 is [imx6qebcrs03a1](#)
- You can refer following URL link to build image
 - ◆ http://ess-wiki.advantech.com.tw/view/IoTGateway/BSP/Linux/iMX6/Yocto_LBV8_User_Guide

5. Improve Boot Speed

- Regarding to the boot-time configuration guidelines, you can refer following URL link.
 - ◆ http://ess-wiki.advantech.com.tw/view/IoTGateway/BSP/Linux/iMX6/Yocto_LBV8_User_Guide#Improve_boot_speed

6. Add New Features

Features	Description	Comment

7. Fixed Bugs

Bug ID	Issue	Description
None		

8. Won't Fixed Bug

Bug ID	Issue	Description
None		

9. Known Issues

Features	Description	Resolution/Workaround

10. Limitations

Features	Description	Resolution/Workaround