



RSB-4710

Release Note

Released Version:V6.012
Released Date: 2017-12-08

Advantech Co., Ltd.

<http://www.advantech.com/>

ABSTRACT

This document describes how to use diagnostic tool for board functionality verification.

Copyright Notice

This document is copyrighted, 2012, by Advantech Co., Ltd. All rights are reserved. Advantech Co., Ltd. reserves the right to make improvements to the products described in this manual at any time. Specifications are thus subject to change without notice.

No part of this manual may be reproduced, copied, translated, or transmitted in any form or by any means without the prior written permission of Advantech Co., Ltd. Information provided in this manual is intended to be accurate and reliable. However, Advantech Co., Ltd., assumes no responsibility for its use, or for any infringements upon the rights of third parties which may result from its use.

All the trademarks of products and companies mentioned in this data sheet belong to their respective owners.

Copyright © 1983-2012 Advantech Co., Ltd. All Rights Reserved

For more information on this and other Advantech products please visit our website at :

<http://www.advantech.com>

Part No.

Version: 1.00

Printed in Taiwan 2021-03-15

1. Hardware Information

CPU: RK3399

2. Software Information

Ubuntu18.04

3. Release Version

Rev	Date	Description	Release by
UIV10031	2020-12-14	The first release	Yunjin.Jiang

4. Add New Features

5. Function Test

Module	Test Steps	RESULT
CPU Cores	CPUinfo under kernel cat /proc/cpuinfo grep "processor" wc -l	PASS
CPU MHz	A72 cat /sys/devices/system/cpu/cpufreq/policy4/cpuinfo_max_freq	PASS
	A53 cat /sys/devices/system/cpu/cpufreq/policy0/cpuinfo_max_freq	PASS
CPU DVFS		PASS
VPU	echo 0x100 > /sys/module/rk_vcodec/parameters/debug	PASS
GPU	GPU 200M-800M http://webglsamples.org cat /sys/devices/platform/ff9a0000.gpu/utilisation cat /sys/class/devfreq/ff9a0000.gpu/cur_freq	PASS

Thermal	Thermal Configuration	PASS
	Limit CPU frequency	PASS
	Shutdown	PASS
DDR	meminfo under kernel cat /proc/meminfo cat /sys/class/devfreq/dmc/cur_freq 416M、856M	PASS
	memtester	PASS
DEBUG UART	config as normal uart port /dev/ttyS2 serial_test /dev/ttyS2 115200 n 10 2	PASS
	System debug message output and input	PASS
PMIC	1.8V/3.3V/5V voltage,reset,poweroff	PASS
SD	Write/Read/Verify data in the start/end 4 byte of flash	PASS
	Hotplug	PASS
eMMC	Write/Read/Verify data in the start/end 4 byte of flash under uboot/kernel	PASS
SPI		PASS
I2C	i2cdetect i2cget i2cset i2cdetect -y 4 i2cdump -f -y 4 0x50	PASS
LAN	RGMII	PASS
	LAN7500	PASS
UART	/dev/ttyS4 serial_test /dev/ttyS4 115200 n 10 2	PASS
	/dev/ttyUSB0	PASS
	/dev/ttyUSB1	PASS
	/dev/ttyUSB2 RS232	PASS
	/dev/ttyUSB3 RS232	PASS
	/dev/ttyUSB2 RS485	PASS
	/dev/ttyUSB3 RS485	PASS
USB2.0	port x5	PASS
USB3.0	new SuperSpeed USB device	PASS
USB OTG	FlashTool upgrade	PASS

	Host (ADB)	PASS
	Master	PASS
LED	Power LED	PASS
	Power Key LED	PASS
	4G LED	PASS
HDMI1	4K60Hz	PASS
HDMI2	DP2HDMI	PASS
LVDS	g070vw01	PASS
	g150xgel05	PASS
	g215hvn01	PASS
eDP	XUPOS-NT156FHM-N41 15.6" LCD, 220nits, 1920x1080	PASS
	XUTC-B156XTN07.1 AUO 15.6", 1366 x 768, 220nits, for UTC project	PASS
PWM	PWM0 edp echo 10 >/sys/class/backlight/backlight0/brightness echo 200 >/sys/class/backlight/backlight0/brightness	PASS
	PWM1 lvds echo 10 >/sys/class/backlight/backlight1/brightness echo 200 >/sys/class/backlight/backlight1/brightness	PASS
MIPI CSI	OV8858	PASS
RTC	PT7C4337 ,synchron system time and hareware time I2C0 0x68 /dev/rtc ntpdate 0.rhel.pool.ntp.org hwclock --hctosys hwclock --systohc	PASS
Audio	RT5660 Speaker	PASS
	RT5660 LOUT	PASS
	RT5660 MIC arecord -f S16_LE -r 8000 -d 10 -t wav mac_10s.wav	PASS

	RT5660 Line IN amixer -c0 cset name="RECMIXL BST3 Switch" 1 amixer -c0 cset name="RECMIXR BST3 Switch" 1 arecord -f S16_LE -r 8000 -d 10 -t wav line_in_10s.wav	PASS
	HDMI LOUT	PASS
GPIO	GPIO in out(GPIO1~6)	PASS
WATCHDOG	cat /dev/watchdog w_wdt: watchdog cannot be disabled, system will reboot soon	PASS
Power Button	Power on/off test	PASS
Reset Button	Reset system	PASS
	Software reboot	PASS
PCIE	WLAN EWM-W188M201E RTL8822BE	PASS
	Bluetooth EWM-W188M201E RTL8822BE	PASS
M.2	Wlan AW-CM276MA Marvell 88W8997	PASS
	Bluetooth AW-CM276MA Marvell 88W8997	PASS
mini PCIE	4G EC20	PASS
SIM		PASS
RUN	BurnIn 14 hours	PASS