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A module/product solution provider

WG78XX SERIAL MODULE

PLATFORM/OS SUPPORT NOTE

Version: 0.1

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Changed History

version	Date	Description	Author
0.1	2016.05.08	Draft version	Austin Huang



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1 INTRODUCTION

This doc mentioned all ARM-based platform and OS support list and provide some useful TI link for customer integration on their own HW platform.

1.1 OS AND PLATFORM SUPPORT

The WG78xx WiFi/BT/GNSS driver supported all kind of ARM-based platform with Linux and Android OS.

- Linux version support: Linux 2.6.37~4.4+
- Android version support: Android 4.2 to 6.0
- HW platform support:
 1. NXP(Freescale) iMX6 All Serial
 2. TI AM335
 3. TI OMAP4
 4. TI DRA7xxx
 5. TI DM385
 6. TI DM368
 7. Nvidia T30
 8. Nvidia T40
 9. Nvidia K1
 10. Ambarella A7L

Note: Related kernel path and driver request. Please contact with Jorjin Sales.

1.2 TECHNICAL SUPPORT REQUIREMENT

Jorjin provide technical support as below. If you have any issue of Jorjin WG78xx module. Please contact with Jorjin Sales.

- Platform integration with WG78xx module WiFi/BT/GNSS driver.
- RF certification, such as FCC, CE...etc.
- WiFi logo certification.
- Others

1.3 DRIVER RELEASED NOTE AND LIMITAION

- WiFi Driver Link and Released Note

http://software-dl.ti.com/ecs/WiLink8/latest/index_FDS.html



http://software-dl.ti.com/ecs/WiLink8/R8_7/exports/release_notes_R8_7.html

Single Role and Band support list

Role	Band	
	2.4GHz	5GHz
STA	20 MHz SISO	20 MHz SISO
	40 MHz SISO	40 MHz SISO
	20 MHz MIMO	
AP	20 MHz SISO	20 MHz SISO
	20 MHz MIMO	40 MHz SISO
P2P	20 MHz SISO	20 MHz SISO
	20 MHz MIMO	40 MHz SISO

Limitation in Multi-Role

Role	STA	AP	P2P CL	P2P GO
STA	X	V	V	V
AP	V	Same Channel	V	Same Channel
Mesh	Same Channel	Same Channel	X	X
P2P CL	V	V	X	X
P2P GO	V	Same Channel	X	X

- Dual AP mode must be started or stopped statically.
- While operating as DFS master, no scans are allowed. This means MR combinations of DFS master with STA or with P2P are not supported.
- While operating as AP and P2P-GO (same channel) the P2P-GO channel should not be explicitly given and the channel synchronization is automatically.

- BT/BLE and TI_ST driver are in kernel tree.
- BT/BLE profile is depends on BlueZ in Linux and Bluedroid in Android. Customer can find 3rd party for specific BT/BLE profile.
- BT Firmware Link:

<http://www.ti.com/tool/WL18XX-BT-SP>

- GNSS Driver Link:

<http://www.ti.com/tool/WILINK8-GNSS-DRIVER>

1.4 REFERENCE

Official WG78xx Driver download link:

http://software-dl.ti.com/ecs/WiLink8/latest/index_FDS.html

Platform Integration Guide

http://processors.wiki.ti.com/index.php/WL18xx_Platform_Integration_Guide

Linux porting Guide:

http://processors.wiki.ti.com/index.php/WiLink8_Linux_Getting_Started_Guide

Android porting guide

http://processors.wiki.ti.com/index.php/WiLink8_Linux_Getting_Started_Guide_Android



Driver debug.

http://processors.wiki.ti.com/index.php/WL18xx_Driver_Debug