

Information Note

Topic EMMY-W1 Firmware update, Taiwan and China certification, Mass Production
UBX-18016626

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1 Affected Products

Product Name	Ordering Code	Type No	Remarks
EMMY-W161-A	EMMY-W161-00A	EMMY-W161-00A-00	
EMMY-W161	EMMY-W161-00B	EMMY-W161-00B-00	
EMMY-W163-A	EMMY-W163-00A	EMMY-W163-00A-00	
EMMY-W163	EMMY-W163-00B	EMMY-W163-00B-00	
EMMY-W165-A	EMMY-W165-00A	EMMY-W165-00A-00	
EMMY-W165	EMMY-W165-00B	EMMY-W165-00B-00	

2 Type of Change

- Hardware modification
- Firmware update
- Documentation update
- Others, Taiwan and China certification completed
- Others, Mass Production status

3 Description of Change

3.1 Firmware update

Marvell has released the following driver/firmware packages:

- SDIO-UART driver package: 15.44.7.p161-15.100.7.p161
- SDIO-SDIO driver package: 15.68.7.p154-15.26.7.p154

The above-mentioned driver/firmware versions and later versions solve WPA2 vulnerabilities known as *Key Reinstallation Attacks or KRACK [1]*. The previous driver packages have been identified to be vulnerable to parts of the KRACK Common Vulnerability and Exposure identifiers (CVEs) when either an open source supplicant is used or when the Marvell Firmware Embedded Supplicant (mланutl) is used.

3.2 Taiwan NCC certification completed

Certification for Taiwan (NCC) has been completed for EMMY-W161, EMMY-161-A, EMMY-W165 and EMMY-W165-A module variants. The product labels for those modules will be updated to include the NCC certification ID and logo. The EMMY-W1 System Integration Manual and the Data Sheet has been updated with information about the certification, including the new label.

3.3 China SRRC certification completed

Certification for China (SRRC) has been completed for the EMMY-W161 module variant. The EMMY-W1 System Integration Manual and the Data Sheet has been updated with information about the certification.

3.4 Mass Production status

The EMMY-W1 series has reached Mass Production status.

3.5 Documentation updates

The referenced documents [2], [3] and [4] have been updated to reflect the above described changes.

4 Schedule

The updated documentation, driver/firmware and certifications are available now.

Estimated first transition date for modules with the new label (module variants EMMY-W161, EMMY-161-A, EMMY-W165 and EMMY-W165-A) is October 29, 2018. The estimated transition date is the forecast date at which customers should be prepared to receive the changed product. The exact date depends on u-blox stock depletion and may be affected by fluctuations in supply and demand. u-blox will continue to ship the old version until the inventory has been depleted. This may result in an old version being shipped to customers beyond the forecast estimated transition date.

5 Customer Impact and Recommended Action

Customers are advised to review if patches for KRACK need to be applied, to decide if new firmware shall be integrated (either the above mentioned driver/firmware package versions, or a later version). It is also recommended to review any third party software (for example open source supplicant) to see if it needs to be updated to fully remove KRACK vulnerabilities.

Customers using the EMMY-W161, EMMY-161-A, EMMY-W165 or EMMY-W165-A modules are advised to review if any visual inspection system needs to be updated to accept the new label.

Customers are advised to go through the revision history of the updated documents to know the changes.

6 Reference Documents

- [1] <https://www.krackattacks.com/>
- [2] [EMMY-W1 series Data Sheet, u-blox document UBX-15011785](#)
- [3] EMMY-W1 series System Integration Manual, u-blox document UBX-15024929 *
- [4] [EVK-EMMY-W1 User Guide, u-blox document UBX-15012713](#)

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