

Information Note

Topic ODIN-W1 firmware update for RED compliance
UBX-18017486

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1 Affected Products

Product Name	Ordering Code	Type Number	Remarks
ODIN-W160	ODIN-W160-00B	ODIN-W160-00B-00	
ODIN-W161	ODIN-W161-00B	ODIN-W161-00B-00	
ELIN-W160	ELIN-W160-00B	ELIN-W160-00B-00	

2 Type of Change

- Hardware modification
- Firmware update
- Documentation update
- Others

3 Description of Change

3.1 Firmware update for RED compliance for 5 GHz band

The European Radio Equipment Directive (RED) 2014/53/EU [1], which became mandatory on June 13, 2017, included an exception that allows compliance of the adaptivity requirements (Channel Access Mechanism) in EN 301 893 according to v1.8.1 clause 4.8 instead of v2.1.1 clause 4.2.7. This exception is in place until June 12, 2018. This means that the radio transmitters operating in the 5 GHz band, and that are made available on the European market after June 12, 2018, must comply with EN 301 893 v2.1.1 clause 4.2.7 for the adaptivity requirements.

In order to be compliant with the new regulatory requirements for operation in the 5 GHz band on the European market after June 12, 2018, an updated firmware needs to be integrated in the host driver.

The new firmware from the chip supplier Texas Instruments is:

- Firmware revision: 6.3.10.75.141
- Firmware file name: wl1273-ODIN-W160.bin
- Firmware changes from v135 to v141
 - Adaptivity threshold changed to -75 dBm
 - WLAN-BT Coexistence fixes
 - IOP fixes (mostly with iPhone)

The RED compliance for the 2.4 GHz band is not affected, and approvals in countries outside of Europe are also not affected. End products made available on the European market before June 13, 2018 are not affected. There are no changes to the hardware or configuration settings of the affected modules, and product deliveries will continue as before.

3.2 Documentation update

The *ODIN-W160 EU Declaration of Conformity [2]* has been updated to reflect that the products are fully compliant with EN 301 893 v2.1.1 (including adaptivity clause 4.2.7), when the TI firmware rev 6.3.10.75.141 is integrated in the host.

The *ODIN-W1 System Integration Manual [3]* has been updated regarding the new firmware and RED compliance.

4 Schedule

The new firmware file and the updated documentation are available now.

The new regulatory requirements for operation in the 5 GHz band in Europe are mandatory from June 13, 2018.

5 Customer Impact and Recommended Action

u-blox recommends that customers review the regulatory requirements for their end products to see if the EN 301 893 v2.1.1 compliance is required. If required, the firmware in the host system must be updated to the new firmware version and the functionality of the end product must be verified. Contact support@u-blox.com to request the new firmware file. See the *ODIN-W1 System Integration Manual [3]* for information about how to update to the new firmware file.

There are no changes to the deliveries of the affected products since there are no changes to the hardware or configuration settings.

6 Reference Documents

[1] Radio Equipment Directive (RED) information at European Commission web site

Overview:

http://ec.europa.eu/growth/sectors/electrical-engineering/red-directive_en

Harmonized standards:

https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/red_en

EN 301 893 v2.1.1:

http://www.etsi.org/deliver/etsi_en/301800_301899/301893/02.01.01_60/en_301893v020101p.pdf

EN 301 893 v1.8.1:

http://www.etsi.org/deliver/etsi_en/301800_301899/301893/01.08.01_60/en_301893v010801p.pdf

[2] [ODIN-W160 EU Declaration of Conformity \(UBX-15011537\)](#)

[3] [ODIN-W1 System Integration Manual \(UBX-15011025\)](#) *

* Contact u-blox support or your u-blox sales contact to request this document.