

IN – Information Note

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| Topic: | u-blox connectivity software v5.0.1 available for ODIN-W2 |
| | UBX-18005064 |
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| Date: | 26-Jan-2018 |

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1 Affected Products

| Product Name | Order Number | Type Number | Remarks |
|--------------|---------------|------------------|-----------------|
| ODIN-W260 | ODIN-W260-04B | ODIN-W260-04B-00 | Software v5.0.1 |
| ODIN-W262 | ODIN-W262-04B | ODIN-W262-04B-00 | Software v5.0.1 |

2 Type of Change

- Hardware modification
- Software update
- Documentation update
- Others, _____

3 Description of Change

ODIN-W2 software version 5.0.1 includes new functionalities and correction of issues from the previous software releases. The new software version is pre-flashed in the orderable products - ODIN-W260-04B and ODIN-W262-04B. It is also downloadable from the web [1].

The main new features in the software v5.0.1 are presented in the following sections and in the release notes [2].

3.1.1 Wi-Fi 802.11n and MIMO

Support for the IEEE standard 802.11n has been added. This includes Multiple Input Multiple Output (MIMO) functionality. MIMO is supported only on the ODIN-W260 module and on the 2.4 GHz band.

3.1.2 Wi-Fi roaming

Possibility to roam in a Wi-Fi network has been included by adding scanning functionality that maintains a list of alternative access points in the vicinity. This enables the device to connect to another access point when the signal strength from the current network declines, but before the connection is lost.

3.1.3 Protected Management Frames (802.11w)

IEEE 802.11w provides encryption of the network management information sent between the access point and station. This feature protects the module from spoofing attacks.

3.1.4 Bluetooth PAN

With the Personal Area Networking (PAN) Profile, up to 8 Bluetooth devices can form an adhoc network or access a remote network through an access point. ODIN-W2 can act both as a Network Access Point (NAP) or Personal Area Network User (PANU).

3.1.5 PEAP and EAP-TLS server certificate validation

The handling of certificates for secure authentication in the Wi-Fi network using Enterprise Security has been improved. With the v5 of the u-blox connectivity software, ODIN-W2 can validate the remote server certificate before sending any credentials over the link.

3.2 Documentation updates

| Document | Document No | Updates |
|--|--------------|------------------------------------|
| ODIN-W2 Data Sheet | UBX-14039949 | Updated with new features |
| Short Range AT Commands Manual | UBX-14044127 | Updated with new features |
| ODIN-W2 Product Summary | UBX-15004332 | Updated with new features |
| ODIN-W2 System Integration Manual | UBX-15017452 | Updated with new features |
| Open Source Software Licenses | UBX-15022695 | Updated with new licenses |
| ODIN-W2 series - Using u-blox connectivity software Application Note | UBX-16024251 | Updated with new features |
| Software v5.0.1 for ODIN-W2 Release Notes | UBX-18006009 | Release notes for the new software |

4 Schedule

Documentation is available for download now.

ODIN-W2 modules with software version 5.0.1 are orderable now through the order numbers ODIN-W260-04B and ODIN-W262-04B.

5 Customer Impact and Recommended Action

It is recommended to review the software updates presented in the release notes [2].

6 Reference Documents

- [1] [Software v5.0.1 for ODIN-W2](#)
- [2] [Software v5.0.1 for ODIN-W2 Release Notes](#)