Uppgjord (även faktaansvarig om annan) – *Prepared (also subject responsible if other)*		Dok Nr – Doc *No.*	Revision
Kåre Berg		10201- SPB611 Marking Instruction	1.0
Dokansv/Godk - *Doc respons/Approved*	Granskat - *Reviewed*	Datum - *Date*	
	See below	2023-10-25	

SPB611 Module Marking Instruction

Reviewed by:

Abstract

Revision History

Current	1.0	
Revision	**Revision date**	**Description**
1.0	2023-10-25	Requirements for reel labels, packing labels, and packing instructions removed. Marking instructions in section 3 revised.
0.4	2023-09-19	Corrected typo in title. Added section 2.4 Marking alignment. Removed obsolete in section 2.5.
0.3	2023-09-16	Revised the package marking in figure 1. Corrected FCCID in table section 2.2. Revised the package marking in figure 2.
0.2	2023-09-16	Corrected Module serial number format
0.1	2023-09-15	Changed marking format
A	2023-09-05	First Draft

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1 Scope

This document describes the requirements for SPB611 module marking.
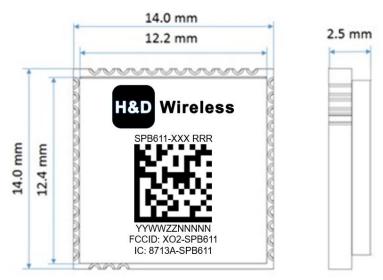
2 Package outline drawing, QFN 41L 14x14 mm

Figure 1, Mechanical drawing, equivalent to a 41L QFN package.
N.B. Drawing not to scale.

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3   SPB611 shield/package marking

Figure 2, SPB611 package marking.
N.B. Elements in drawing not to scale.

Marking	Description	Instructions
H&D Wireless	Company Logo Defines pin-1 location	Fix marking. The square around H&D: ~2x2mm
SPB611	Product name	Fix marking. Mark according to Figure 2.
XXX	Product version	Dynamic marking. RNM or RLM, see purchase order for correct product version.
RRR	Product revision	Dynamic marking. See purchase order for correct product revision.
(2D-code)	2D-code (in Data Matrix format) with Module serial number.	Dynamic marking. 2D-code size: ~5x5mm See section 3.3 for full instruction.
YYWW	4-digit Date code YY: Year WW: Work week	Dynamic marking. See section 3.3 for full instruction.
ZZ	2-digit Production batch number.	Dynamic marking. See section 3.3 for full instruction.
NNNNN	5-digit serial number	Dynamic marking. See section 3.3 for full instruction.
FCCID: XO2-SPB611	FCC approval number	Fix marking. Mark according to Figure 2.
IC: 8713A-SPB611	IC approval number	Fix marking. Mark according to Figure 2.

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3.1 Font style and font size

Font style is Arial.
Font size for the text "Wireless" in the first row is 1.25mm.
Font size for the rest of the text is 0.6mm.

3.2 Marking alignment

Marking text, 2D-code and H&D Wireless logo shall be centered ±1.0mm horizontally. The total marking area shall also be centered vertically.

3.3 Date code, Production batch number and Serial number

3.3.1 Date code

YY: Last two digits in production year.
WW: Work week according to ISO8601 rule.

3.3.2 Production batch number

First batch started in a week is marked 01.
Second batch started in same week is marked 02.
Third batch started in same week is marked 03.

3.3.3 5-digit serial number

Serial number that starts from 00001 and restarts for new Date code or for new Production batch number.

3.3.4 Module Serial Number

Each SPB611 module needs a unique Module serial number for traceability purpose. The Module Serial Number is marked as human readable version and as 2D-code version.

The Module Serial Number is an 11-digit code created by combining Date code (YYWW), Production batch number (ZZ) and 5-digit serial number (NNNNN). For example:
a. The first batch with date code 2349 will have Module Serial Numbers between 2349**01**100001-2349**01**99999.
b. If a second batch is started in the same week, then the second batch will have Module Serial Numbers between 2349**02**00001-2349**02**99999.
c. If a third batch is started in the same week, then the third batch will have Module Serial Numbers between 2349**03**00001-2349**03**99999.
d. If a fourth batch is started, but is started the week after above three batches, then the fourth batch will have Module Serial Numbers between 2350**01**100001-2350**01**99999.

3.3.5 Module Serial Number in 2D-code

The 2D-code shall contain the same information as the Module Serial Number.