

FL-WLAN-SPA, (cB-3035-01) Assemble Specification



Table of content

1 Objective3

2 Assemble4

2.1 Bill of material (BOM)4

2.1.1 FL-WLAN-SPA, (cB-3035-01)4

2.2 Mechanical assemble5

3 Test10

3.1 Production test10

3.1.1 Test instructions10

3.1.2 Test report10

1 Objective

This document is to define the procedure to assemble the parts included in the FL-WLAN-SPA (cB-3035-01).

The information contained herein and in the references should be sufficient to guide a person in an attempt to assemble the FL-WLAN-SPA.

2 Assemble

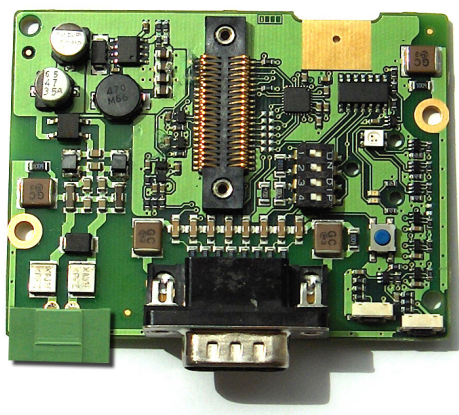
2.1 Bill of material (BOM)

2.1.1 FL-WLAN-SPA, (cB-3035-01)

Document name:	cB-3035 BOM
Document number:	cBProject-0705-06
Document file:	cBProject-0705-06 cB-3035 BOM.xls
Revision:	

2.2 Mechanical assemble

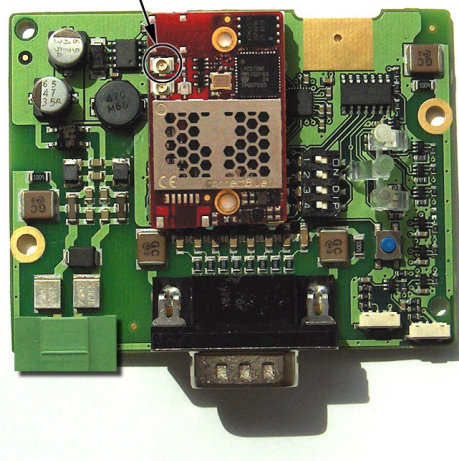
1. Drill a 6.5mm hole for the antenna connector in the top part of the plastic housing (BOM pos 4). Use the antenna hole drill-jig.
2. Make sure that all through-hole components are mounted on the carrier board (BOM pos 2) (Picture 1).



Picture 1 – Carrier board.

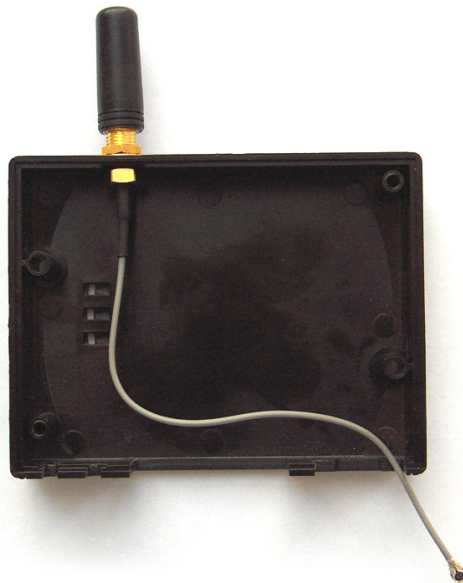
3. Fit the light guide (BOM pos 3) to the Carrier board (Picture 2). The three individual light pipes should not be separated from each other.
4. Connect the OWSPA311g module (BOM pos 1) to the carrier board. Use two M2 screws (BOM pos 7) to secure the module to the carrier board connector (Picture 2).

Antenna connector



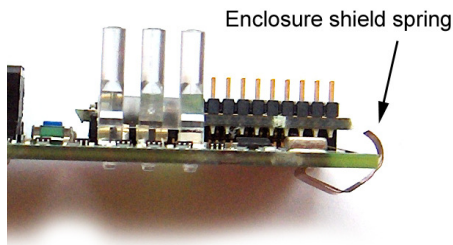
Picture 2 – OWSPA311g module and light guides fitted to the carrier board.

5. Put into position the SMA part of the SMA to U.FL cable (BOM pos 11) in the top part of the plastic housing as shown in Picture 3.
Tighten the screw-nut to secure the SMA connector to the plastic housing.
The included washer should NOT be used.
6. Attach the antenna (BOM pos 12) to the SMA connector (Picture 3).



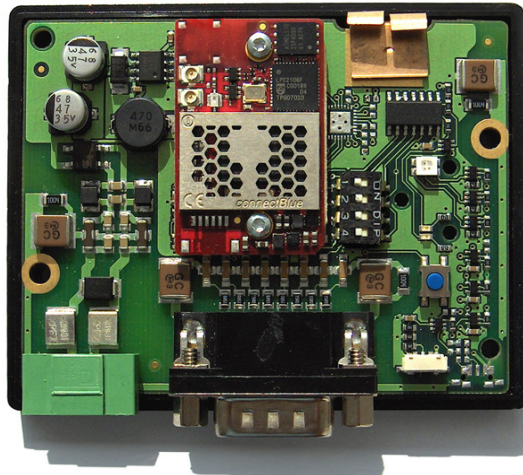
Picture 3 – SMA connector with 120 mm U.FL cable.

7. Attach the antenna ground connector spring (BOM pos 13) to the carrier board (Picture 4).



Picture 4 – Antenna ground connector spring

8. Position the carrier board into the bottom part of the plastic housing as shown in Picture 5.



Picture 5 – Carrier board with antenna ground connector spring positioned into the enclosure

9. Connect the U.FL part of the SMA to U.FL cable to the U.FL receptacle on the OWSPA311g module. Make sure that the cable does not twist.
10. Put on the top part of the plastic housing. Make sure that the light-pipes are fitted into the 3 rectangular openings in the top part of the plastic housing.

11. Turn the unit upside down and insert the two self-threading screws (BOM pos 7).
The screws are put in the top right and bottom left hole in the bottom part of the enclosure.
Tighten the self-threading screws to secure the top and bottom part of the plastic housing to each other.
12. Put on the serial number label (BOM pos 6) on the bottom part of the enclosure in the designated area (Picture 6).
The serial number label also includes the wording “This device contains FCC ID: PVH0908EP”.
Make sure the orientation of the label is as shown in Picture 6.



Picture 6 – Serial number label

13. Attach the 4 rubber feet (BOM pos 9) to the bottom of the enclosure (Picture 6).

14. Put on the front panel label (BOM pos 5) to the front of the enclosure (Picture 7).
Make sure that the orientation of the label is correct with respect to the plastic housing light-pipe openings



Picture 7 – FL-WLAN-SPA front panel label

15. The assembled unit is now ready for test (Section 3).

3 Test

3.1 Production test

The production test is only to be carried out on an assembled unit.

3.1.1 Test instructions

Document name:	RSPA Test Setup Specification
Document number:	cBProduct-0706-05
Document file:	“cBProduct-0706-05 RSPA Test Setup Specification.pdf”
Revision:	
Test software:	connectBlue Complete production tool
Test software rev:	
Time consumption [s]:	

3.1.2 Test report

Detected errors from the test phase are logged in a test report, the test report could be located at the production company or the information is from the production company.

Document name:	
Document number:	
Document file:	
Revision:	