

Internal photos

900229.001 AirConnect Unit

900229.002 AirConnect Commander

Creator: Marek Wróblewski

Last Modified by: Marek Wróblewski

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1 Equipment Under Test (EUT)

1.1 EUT Identification

KIWA Project Number	031/25
EUT description	Wireless communication bridge with mesh functionality, where serial communication is transferred between Air Connect devices (2.4 GHz)
Model	Air Connect Commander Air Connect Unit
Code	900229.001: Air Connect Unit 900229.002: Air Connect Commander
Serial number	250117-00001
Software release	V1.0
Size	80 x 55 x 34 [mm] excluding flanges and antenna
Manufacturer	Stoerk-Tronic, Stoerk GmbH & Co. KG
Supply voltage	12 VDC
Rated electrical power	0.6 W
Rated input current	50 mA
FCC ID	2BNLE-AIRCONNECT Contains FCC ID: 2AC7Z-ESPS3WROOM1U

Air Connect Commander and Air Connect Unit have the same PCB and the same components. They also use the same library to interface the RF module. The difference between the two products is only in the functional layer of the application (Unit is a Modbus master, while Commander is a Modbus slave).

1.2 PCB photographs

Both Air Connect Commander and Air Connect Unit use the exact same PCB.

1.2.1 PCB overview



Figure 1 PCB front side

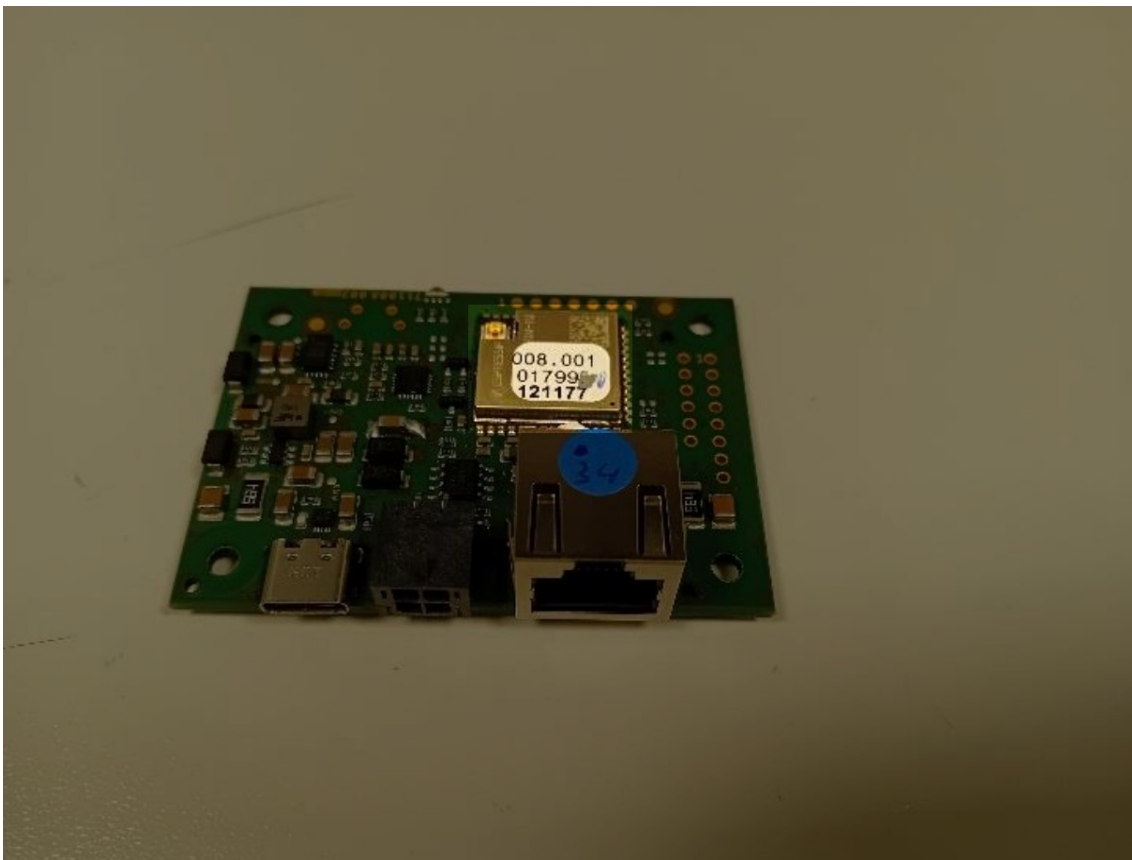


Figure 2 PCB front side with RF section highlighted



Figure 3 PCB backside

1.2.2 Detailed photographs of the RF section









1.3 Photographs in housing (Air Connect Commander)







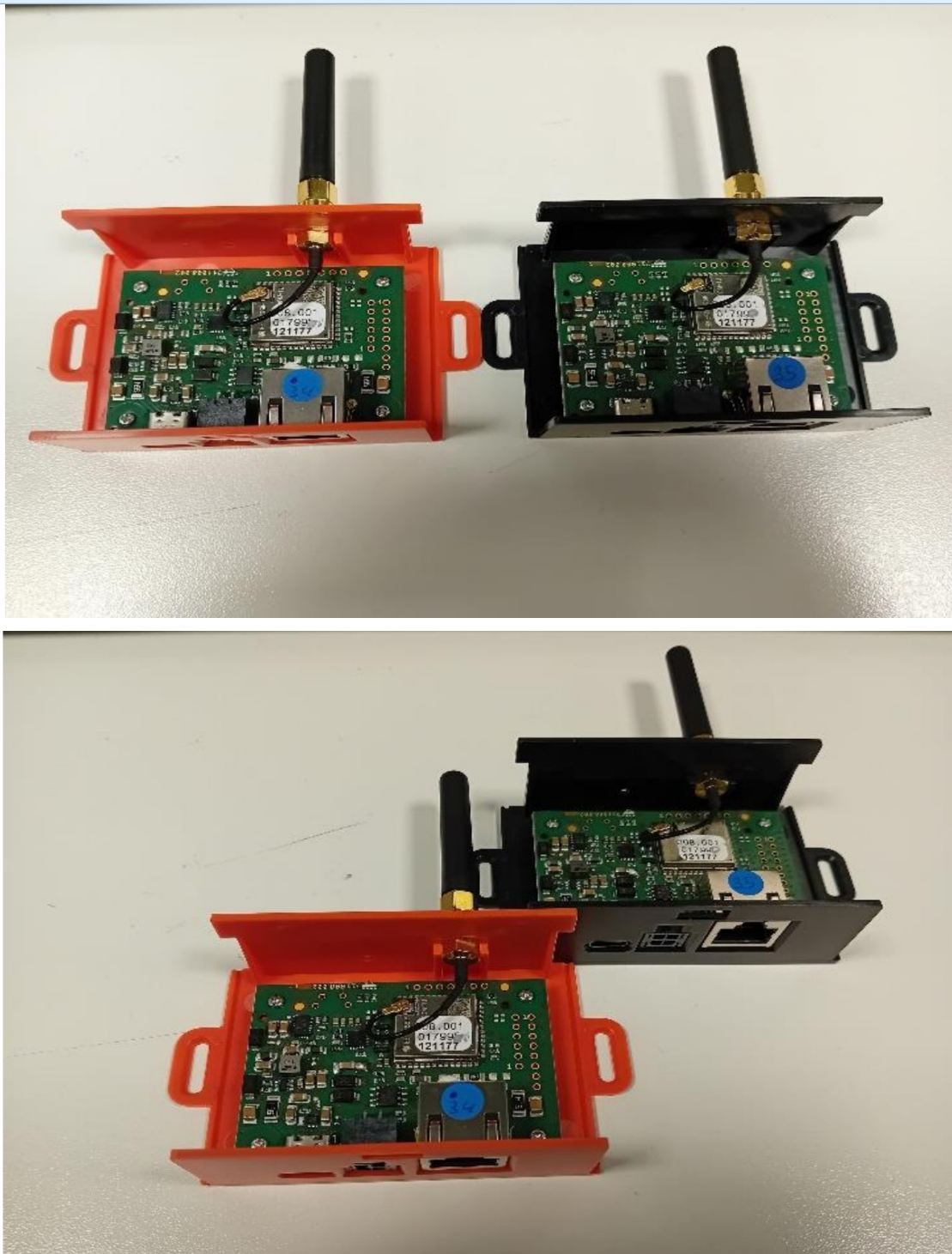
1.4 Photographs in housing (Air Connect Unit)



1.5 Comparison photographs Air Connect Commander and Air Connect Unit

The differences are only in application level firmware. Different housing colors help identify the correct product:

- orange: Air Connect Unit
- black: Air Connect Commander



2 Auxiliary equipment

The auxiliary equipment AE1 used for test setup (see external photos) is a separate product called Commander Box. It is not part of the certification. Internal photos are not provided.