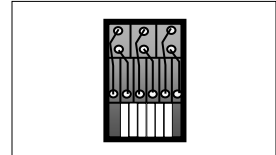


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**Ericsson W-CDMA/LTE 1900/2100MHz  
Semi-Active Antenna/Radio Unit  
60W (2 x 30W)  
KRC 118 046/1 R2A  
Model AIR21 B4A B2P**

**November 2013**



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# EXECUTIVE SUMMARY

This report is a design “teardown” analysis of an Ericsson 1900/2100MHz Band 4 Active Band 2 Passive 4x2 MIMO remote radio unit multi-standard (RRUS) supporting LTE technology. The analysis covers the entire system including the passive dual band antenna, power supply, transmit, receive amplifiers and duplexer filters functions. A simplified mechanical analysis of the unit along with detailed bill of materials analysis is presented in this report. The Ericsson product name is AIR21 B4A B2P. The Ericsson P/N for this AIR21 unit is KRC 118 046/1 R2A. The FCC identification number is TA8AKRC118046-1. This unit was manufactured in Estonia and Germany.

## ***Radio Unit Active/Passive Component Summary***

<b>Total Weight:</b>	41 kg
<b>Total Active/Passive Components:</b>	6,897 [1]
<b>Total Active/Passive Components:</b>	7,993 [2]
<b>Total Active Components:</b>	509 [2]
<b>Total Passive Components:</b>	7,484 [2]
<b>Total Other Components:</b>	47 [3]

[1] Excluding components on hybrid modules and DC/RF cables & connectors

[2] Including components on hybrid modules and excluding DC/RF cables & connectors

[3] Primarily DC/RF Cables & Connectors

### ***Important Note:***

**This particular unit was built in Q3 2012**, given the date codes present on many of the semiconductor integrated circuits contained within the unit as well as on the front panel of the unit. As such, some or many of the components, both active and passive, have been updated or replaced by more recent part numbers. The majority of the components contained within the bill of materials analysis are not RoHS compliant. We believe that the overall system and functionality presented has not changed dramatically compared to the latest version of this unit.

Where possible, all components, both passive and active, have been identified with the manufacturer’s part number within the bill of materials analysis.

This analysis does not include any pricing information or estimated costs on the mechanical design or for any passive or active components contained within the system. All dimensions, unless otherwise specifically stated, are in metric format.

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