

Prepared (also subject responsible if other)		No.		
RSACGUS		TA8AKRC118048-1		
Approved	Checked	Date	Rev	Reference
EAB/FJB/KA [Christer Gustavsson]		2013-12-04	B	

Federal Communications Commission  
Authorization & Evaluation Division  
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Columbia, Maryland 21046  
Attention: Equipment Authorization Branch

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December 04, 2013

## **Subject: Certification for FCC ID: TA8AKRC118048-1**

To Whom It May Concern:

Ericsson AB requests a Grant of Certification (Type Acceptance) for the above mentioned FCC Identifier.

This base station transceiver (Radio Unit – AIR 21 B4A B12P B5P) is designed for use in WCDMA and LTE cellular telephone system. The transmitter will operate from 2110 MHz to 2155 MHz. The receiver circuit supports 1710 MHz to 1755 MHz. It supports channel bandwidth of 1.4, 3, 5, 10, 15 and 20 MHz for LTE.

This base station transceiver (AIR) supports modulation type QPSK, 16QAM and 64QAM for WCDMA and LTE.

The base station operates in the Cellular band as per 47 CFR Part 27 subpart C. It meets the requirements of Third Generation Partnership Project (3GPP) for the Universal Mobile Telephone System (UMTS 3G) mobile standard (cellular telephone system) for operation in WCDMA and LTE cellular system.

This Radio Unit will in normal mode operate at a nominal power out of 30 watts per port at the output connectors (2 connectors with up to 30 watt in each connector connected to build in antennas).

This Permissive Change request for this Radio Base Station (Radio Unit-AIR 21 B4A B12P B5P) to include following, specified in Exhibit 12 Circuit Description:

- 1) This Radio Unit support multi carrier in LTE mode with up to two carriers per TX port.
- 2) This Radio Unit supports MSR (Multi Standard Radio) with the ability to receive and transmits two or more carriers simultaneously, where at least one carrier is of a different RAT (Radio Access Technology).
- 3) This Radio Unit supports spectrum consisting of two or more sub-blocks separated by sub-block gap(s), NCS (None-Contiguous Spectrum).
- 4) This Radio Unit has the ability to be used in a RBS system configured for 3GPP MIMO/Spatial multiplexing and beam-forming technologies.
- 5) Hardware updates due to cost reduction, replace outgoing components and to increase some performance requirements to improve the production. Se Exhibit 12 Circuit Description – Modification.

The Exhibit 8 user manuals submitted with this application is generic and may cover multiple products. This application is only valid for the model specified in the Exhibit 12 circuit description.

Ericsson AB requests confidentiality under CFR 0.459 according to attached letter. We further certify that the applicant nor any party to the application is subject to a denial of Federal benefits, that includes FCC benefits, pursuant to section 5301 of the Anti-Drug abuse Act of 1988, 21 U.S.C. Section 862.

Ericsson AB accept by this request the agreement set out in the document "Bilaga SPCR 125 -Avtal om marknadskontroll för radioutrustning certifierad för USA-marknaden".

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