

Prepared (also subject responsible if other) EBJOUTE		No. TA8AKRC118023-1		
Approved EAB/FJB/VA [Christer Gustavsson]	Checked	Date 2013-11-27	Rev F	Reference

Federal Communications Commission
Authorization & Evaluation Division
7435 Oakland Mills Road
Columbia, Maryland 21046
Attention: Equipment Authorization Branch

SP Technical Research Institute of Sweden
Brinellgatan 4
Box 857
S-501 15 Borås
Sweden

November 27, 2013

Subject: Certification for FCC ID: TA8AKRC118023-1

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 B2A B4P) is designed for use in GSM, WCDMA and LTE cellular telephone system. The transmitter will operate from 1930 MHz to 1990 MHz. The receiver circuit supports 1850 MHz to 1910 MHz. It supports channel bandwidth of 1.4, 3, 5, 10, 15 and 20 MHz for LTE. This base station transceiver (RU) supports modulation type GMSK and 8PSK, 16QAM, 32QAM and AQPSK for GSM, and QPSK, 16QAM and 64QAM for WCDMA and LTE. The base station operates in the Cellular band as per 47 CFR Part 24 subpart E. 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 GSM, WCDMA and LTE cellular system. This RU supports spectrum consisting of two or more sub-blocks separated by sub-block gap(s), NCS (None-Contiguous Spectrum)

This base station transceiver (AIR 21 B2A B4P) will in normal mode operate at a nominal power out of 30 watts at the output connectors.

This Permissive Change request for this Radio Unit (AIR 21 B2A B4P) is to include following, specified in Exhibit 12:

- 1) Support MSR (Multi Standard Radio) with WCDMA+LTE, GSM+LTE and GSM+WCDMA. The radio unit has the ability to receive and transmits two or more carriers simultaneously, where at least one carrier is of a different RAT (Radio Access Technology).
- 2) MIMO support for WCDMA and LTE. Multicarrier (2 carriers) support for LTE.
- 3) HW modifications, see Exhibit 12 Circuit Description Modification for details.

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".

Christer Gustavsson
Staff Engineer, Regulatory Programs Ericsson AB
FCC Registration Number (FRN): 0013476155
Isafjordsgatan 10
SE-164 80 Stockholm, Sweden
Telephone No.: +46107175949
e-mail: christer.gustavsson@ericsson.com