



Confidentiality Class	External Confidentiality Label	Document Type	Page
Ericsson Internal			1 (2)
Prepared By (Subject Responsible)	Approved By (Document Responsible)		Checked
EALIAFR Afrah Ali Sadiq			
Document Number	Revision	Date	Reference
	A	2022-09-09	

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

Subject: Class II Permissive Change for FCC ID: TA8AKRD901145-1

To Whom It May Concern:

New functionality (the added NB-IoT functionality to NR) has been added in software, as described/covered in Exhibit 12 and supporting documentation.

The radio operates in the Cellular band as per 47 CFR Part 2, part 24 and Part 27. This radio (AIR 4455 B2/B25 B66A) is designed for use in NR, LTE, NB-IoT, GSM and WCDMA cellular telephone system.

Radio 4455 B2/B25 B66 (KRC 161 823/1) is identical to Air 4455 B2/B25 B66 (KRD 901 145/1) except that it uses internal antennas instead of external RF ports.

This FDD radio operates in Band 2, Band 25 and Band 66A.

Band 2: Transmitter from 1930 - 1990 MHz and the receiver from 1850 - 1910MHz.
 Band 25: Transmitter from 1930 - 1995 MHz and the receiver from 1850 - 1915MHz.
 Band 66A: Transmitter from 2110 - 2180MHz and the receiver from 1710 - 1780MHz.

It supports radio access technology SR & MR GSM, WCDMA, LTE, NR, NB-IoT (IB, GB, SA), and supports channel bandwidths of 200kHz for GSM, 5MHz for WCDMA, 200kHz for NB-IoT SA 5, 10, 15, 20 MHz for LTE and NR.

The radio supports modulation type GSM: GMSK, AQPSK, 8PSK NB-IoT: QPSK WCDMA: QPSK, 16QAM, 64QAM LTE & NR: QPSK, 16QAM, 64QAM, 256QAM.

The radio has the ability to be used in a RBS system configured for 3GPP up to 4x4 MIMO/Spatial multiplexing, beam-forming and NB-IoT technologies. The radio will in normal mode operate at a maximum power of 30W (44.8 dBm) at the output connectors.

The radio has two (4) combined TX/RX ports. This radio will always require a license for transmission.

The Exhibit 8 - manuals submitted with this application is generic and may cover multiple products.

This application is only valid for the model specified in the Exhibit 6- test report.

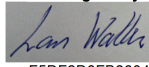
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Ericsson AB accept by this request the agreement set out in the document "IP SPCR 125 Annex A2 Agreements on Post-market surveillance for radio equipment certified for the US market.

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.

If additional information is needed, please contact me on the below listed number.

DocuSigned by:

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