



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	2022-05-03	

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: TA8AKRC161823-1

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 (Radio 4455 B2/B25 B66A) is designed for use in NR, LTE, NB-IoT and WCDMA cellular telephone system.

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 WCDMA, LTE, NR, NB-IoT (IB, GB, SA), and supports channel bandwidths of 5MHz for WCDMA, 200kHz for NB-IoT SA 5, 10, 15, 20 MHz for LTE and NR.

The radio supports modulation type 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.

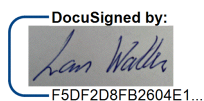
Ericsson AB accept by this request the agreement set out in the document "IP SPCR 125 Annex A2 Agreements on Post-market surveillance for radio equipment certified for the US market.



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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.



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