

Prepared (also subject responsible if other)		No.		
Gavin Gan		TA8AKRC161906-1		
Approved	Checked	Date	Rev	Reference
		2024-03-28	A	LPRU 4420

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

Nemko Canada Inc.
303 River Road
Ottawa, Ontario, Canada
K1V 1H2

March 28, 2024

Subject: Permissive Change Request for FCC ID: TA8AKRC161906-1

To Whom It May Concern:

Ericsson AB requests a Class II Permissive Change for the above-mentioned FCC Identifier.

No changes have been made to the hardware of the radio. The reason for the C2PC is to introduce the new NR 25, 30, 35, and 40 MHz operating bandwidth to the FCC grant.

This Radio Unit (LPRU 4420 B25B66) is designed for use in LTE and NR cellular telephone system. The FDD transmitter and receiver will transmit from 1930-1995 MHz and 2110-2200 MHz. It supports channel bandwidths of 5, 10, 15, and 20 MHz for LTE. It also supports channel bandwidths of 5, 10, 15, 20, 25, 30, 35, and 40 MHz for NR. The Radio Unit supports modulation types QPSK, 16QAM, 64QAM and 256QAM. The Radio Unit operates in the Broadband PCS Service as per 47 CFR Part 24 and the Advanced Wireless Service as per 47 CFR Part 27. It meets the requirements of Third Generation Partnership Project (3GPP) for operation in LTE and NR cellular systems.

The LPRU 4420 B25B66 product will also support NBIoT Guardband and Inband operation for LTE signals ≥ 10 MHz.

The LPRU 4420 B25B66 product will only be installed with its RF output ports connected to Active Distributed Antenna Systems (DAS). Our product will not be directly connected to antennas.

The Radio Unit will in normal mode operate at a nominal power output of 158.5 mW per port at the output connectors (8 connectors with up to 158.5 mW in each port).

This Radio Unit (LPRU 4420 B25B66) will always require a license for transmission.

The Exhibit 8 user manuals submitted with this application are 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.

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



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