

Prepared (also subject responsible if other) EHUAYAN		No. TA8CKRD901108		
Approved Hua Yang	Checked	Date 2019-09-12	Rev A	Reference

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

Subject: Certification for FCC ID: TA8CKRD901108

To Whom It May Concern:

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

The radio operates in the broadband radio service band as per 47 CFR Part 27.

This radio (AIR 6488 B41) is designed for use in NR and LTE mobile telephone system. This radio operates in Band 41, the transmitter and the receiver from 2496 MHz to 2690 MHz. It supports channel bandwidths of 20, 30, 40, 50, 60, 80 and 100 MHz for NR and 10, 20 MHz for LTE. It also supports split mode of LTE and NR, in which the channel bandwidth of LTE is 20 MHz and the channel bandwidth of NR is 20, 40 and 60 MHz. The radio supports modulation types of QPSK, 64QAM and 256QAM for NR, and modulation types of QPSK, 16QAM, 64QAM and 256QAM for LTE.

The radio has the ability to be used in a RBS system configured for 3GPP FD-MIMO and beamforming technologies as an Advanced Antenna System.

The radio has 64 TX/RX ports. In split mode of LTE and NR, 32 TX/RX ports will work for LTE and the other 32 TX/RX ports for NR. This radio will in normal mode of NR operates at a maximum power of 1.25W for channel bandwidth of 20 MHz, 1.875W for 30 MHz, 2.5W for 40 MHz and 3.125W for 50, 60, 80, 90, 100 MHz per port at the transceiver array boundary (TAB) connector. This radio will in split mode of LTE and NR operates at a maximum power of 3.125W for LTE per port and a maximum power of 3.125W for NR per port at the transceiver array boundary (TAB) connector. This radio will in normal mode of LTE operates at a maximum power of 1.875W per port of 10 MHz and 3.125W of 20 MHz.

This Permissive Change request for this radio (AIR 6488 B41) is to support LTE 10 and 20 MHz also.

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.

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

Hua Yang
Staff Engineer, Regulatory Programs Ericsson AB
Isafjordsgatan 10
Kista, SE-164 80 Stockholm
Sweden
Telephone No.: +86 10 8476 7133
e-mail: hua.yang@ericsson.com