



Timco Engineering Inc.
FCC Authorized Telecommunications
Certification Body (TCB)

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June 19, 2023

Timco Engineering Inc.
849 N.W. State Road 45
P.O. Box 370
Newberry, Florida 32669

Subject: Application for Class II Permissive Change Certificate Approval for Nokia AirScale Micro RRH 3.5GHz 4T/4R 20W (AZQC) under Certification Number **FCC ID: 2AD8UAZQCRH1**.

Dear Examiner,

The Nokia AirScale Micro RRH 3.5GHz 4T/4R 20W (**AZQC**) is the subject of this request for a Part 96 Class II Permissive Change FCC Product Certification Filing under **FCC ID: 2AD8UAZQCRH1**.

The **AZQC-CBRS** is a 150 MHz instantaneous bandwidth LTE Transceiver with a total power output capability of 20 Watts for all 4 ports. This 4x5W MIMO transmitter supports 4 **LTE-TDD** carriers placed anywhere in the **Part 96Z Citizens Broadband Radio Service (CBRS)** spectrum of 3550-3700 MHz.

The Original Filing under **FCC ID: 2AD8UAZQCRH1** for Part 96 Certification with multiple emissions designators and multicarrier LTE operation supported 4x5W MIMO operation with 10M0F9W and 20M0F9W emissions designators. A C2PC application for 5G-NR operation was obtained for 20 MHz bandwidth with emission designator 20M0W7W, followed by another C2PC application to add 2x20 5G Multicarrier (Contiguous and Non-Contiguous) operation.

This Class II application is to add 5G-NR 10 MHz Bandwidth Single carrier plus 2x10MHz (Contiguous and Non-Contiguous) 5G-NR Operation to this project.

Attached are the FCC Form 731 (Application for Equipment Authorization – Radio Frequency Devices), the required measurement data and exhibits specific to this request for authorization of the **AZQC-CBRS AZQCRH1**. The technical or non-technical contact at Nokia Bell Labs will comply with any request for additional information should the need arise. The attached exhibits with the applicable FCC Rule section are assembled and presented in accordance with the *Table of Contents* attachment.

Equipment Identification:	2AD8UAZQCRH1
Rules Part Number:	Part 96
Frequency Range:	Transmit/ Receive 3550-3700 MHz (LTE-TDD & 5G-NR)
Output Power:	20 Watts Total Output for 4 Ports operating in a 4x5W configuration
Output EIRP:	50.12 Watts EIRP
Frequency Tolerance:	± 0.05 ppm
Grant Notes:	EP, MO, 20W total for 4 ports, Multicarrier MIMO Operation

Should there be any questions or procedural issues please feel free to contact me by email and/or phone.
Sincerely,



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Att. Table of Contents for the Nokia **Flexi Zone Multiband Outdoor (AZQC) Micro BTS CBRS (2AD8UAZQCRH1)**
Product Certification Report

TABLE OF CONTENTS

Cover Letter

Agent Authorization Letter

Attestation Statements Part 2.911(d)(5)(i)

Attestation Statements Part 2.911(d)(7)

<u>Exhibit #</u>	<u>FCC Rule Number</u>	<u>Description</u>
Exhibit 1	Section 2.1033(a)	FCC Form 731
Exhibit 2	Section 2.911 (e)	Qualifications and Certifications
Exhibit 3	Section 2.1033(c)(21)	Setup Photographs
Exhibit 4		Test Report
Exhibit 5	Section 1.1307(b) & 1.1310	RF Exposure Test Report