

Building 28-114H

600 Mountain Avenue Murray Hill, NJ 07974

Alcatel-Lucent USA Inc.

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

December 23, 2013

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

Dear Mr. Sanders

The Alcatel-Lucent AWS LTE 9765 Metro Cell Outdoor Transceiver System (9765 MCO) is the subject of this request for a FCC Product Certification under FCC ID: AS5BBTRX-17. The AWS LTE 9765 Metro Cell is a 45 MHz bandwidth LTE Transceiver with a power output capability of 5 W at each of its 2 MIMO transmit port outputs. Alcatel-Lucent hereby requests this certification for the 10M00F9W emissions designator. This emissions designator supports operation under the 3GPP2 Long Term Evolution (LTE) communication standard. This is a new design and all of the required supporting exhibits are attached.

This application is for 9765 MCO operation using the 10M00F9W Emissions designator in the Broadband AWS spectrum for Blocks A through G. The measurement exhibits attached to this application demonstrate full compliance with FCC Part 24 Subpart E Broadband AWS following the procedural requirements specified in FCC Part 2 Subpart J – Equipment Authorization Procedures. The data, summarized below, is in the form presently used by the Commission's Radio Equipment List.

Equipment Identification:

AS5BBTRX-17

Rules Part Number:

Part 27 SubPart E - Broadband AWS

Frequency Range:

Transmit 2110-2155 MHz (AWS All Blocks A-F)

Output Power:

0.05 to 5 Watts per output

Frequency Tolerance:

 \pm 0.05 ppm

Emission Designator:

10M00F9W

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 AWS LTE 9765 Metro Cell. The technical or non-technical contact at Alcatel-Lucent 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. Included is a formal letter requesting confidentiality for the following exhibits:

Exhibit # FCC Rule Section Exhibit Title

Exhibit 4 Section 2.1033(c) (8,9) Active Circuit Devices Drive Levels, Tune-Up procedure

Exhibit 5 Section 2.1033(c) (10) Complete Circuit Diagrams

Exhibit 6 Section 2.1033(c) (12,3) Instruction Book

Exhibit 7 Section 2.1033(c) (10, 13) Block Diagram, Operational Description, Circuitry for determining frequency

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

Sincerely,

Rudolf J. Pillmeier Technical Manager

FCC Compliance Test Group

Global Product Compliance Laboratory

Phone: 908-582-2810

email: rudy.pillmeier@alcatel-lucent.com

Primary Administrative Contact

Rudolf J. Pillmeier Technical Manager FCC Compliance Test Group Global Product Compliance Laboratory Building 28-114H 600 Mountain Avenue Murray Hill, NJ 07974 Phone: 908-582-2810

email: rudy.pillmeier@alcatel-lucent.com

Filing Engineer

W. Steve Majkowski NCE CDMA Filing Lead FCC Compliance Test Group Global Product Compliance Laboratory Building 28-114J 600 Mountain Avenue Murray Hill, NJ 07974 Phone 908-582-3782

email: steve.majkowski@alcatel-lucent.com

Att. Table of Contents for the AWS LTE 9764 Metro Cell Outdoor Transceiver System Product Certification Report

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Cover Letter Request for Confidentiality

Exhibit # Exhibit 1 Exhibit 2 Exhibit 3	FCC Rule Number Section 2.1033(a) Section 2.911 (d) Section 2.1033(c) (1,2,4,5,6,7)	Description FCC Form 731 Qualifications and Certifications Manufactures, FCC Identifier, Emission, Frequency Range and RF Power Range	
Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7	Section 2.1033(c) (8,9) Section 2.1033(c) (10) Section 2.1033(c) (12,3) Section 2.1033(c) (10, 13)	Active Circuit Devices Drive Levels, Tune-Up procedure Complete Circuit Diagrams Instruction Book Block Diagram, Operational Description, Circuitry for determining frequency	(Confidential) (Confidential) (Confidential) (Confidential)
Exhibit 8 Exhibit 9a Exhibit 9b Exhibit 10	Section 2.1033(c) (11) Section 2.1033(c) (12) Section 2.1033(c) (12) Section 2.1033(c) (10, 13)	Drawing of the Identification Label External Photographs of the Equipment Internal Photographs of the Equipment Description of Modulation System,	

Test Report Exhibits

Exhibit #	FCC Rule Number	Description of Test Report Exhibits
Exhibit 11	Section 2.1033(c) (14)	Listing of Required Measurements
Exhibit 12	Section 2.1046	Measurement of Radio Frequency Power Output
Exhibit 13	Section 2.1047	Measurement of Modulation Characteristics
Exhibit 14	Section 2.1049	Measurement of Occupied Bandwidth
Exhibit 15	Section 2.1051	Measurement of Spurious Emissions at Antenna
Exhibit 16	Section 2.1053	Field Strength of Spurious Radiation
Exhibit 17	Section 2.1055	Measurement of Frequency Stability
Exhibit 18		Photographs of The Test Setups