



Alcatel-Lucent USA  
Rm. 28-114H  
600-700 Mountain Ave.  
PO Box 636  
Murray Hill, NJ 07974

January 19, 2015

Timco Engineering Inc.  
Telecommunication Certification Bodies  
849 NW State Road 45  
Newberry, Florida 32669

Subject: Application for Original Equipment Certification under FCC ID: AS5BBTRX-22 for Alcatel-Lucent Remote Radio Head (RRH) 4x30W Base Station, Operating in the Personal Communications Services, 1930-1995 MHz, with LTE Technology.

**Dear Examiner:**

In accordance with Parts 2 and 24 of the Commission's Rules and Regulations, we are submitting herewith statements and supporting data to show compliance with the requirements of the Commission for the certification of the Alcatel-Lucent **B25 RRH 4X30**, henceforth RRH 4x30, under FCC ID AS5BBTRX-22, for operation in the domestic PCS A, D, B, E, F, C and G bands (1930-1995 MHz), i.e., E-UTRAN band 25, with Long Term Evolution (LTE) technology.

The RRH 4x30 supports either 2x60W MIMO with 2 transmit and 2 receive streams or 4x30W MIMO with 4 transmit and 4 receive streams. The maximum total output power of the 2x60 or 4x30 configuration is 120 watts or 50.8dBm per unit. The **RRH 4X30** was powered by a DC power supply with -48VDC.

The RRH 4x30 consists of a Control Unit board (CU), Power Amplifier Board (PA), Power Module and RF Filter.

The data summarized below is in the form presently used by the Commission's Radio Equipment List.

Manufacturer	Alcatel-Lucent, Inc.
Equipment Identification	AS5BBTRX-22
Rules Part Number	Part 24E
Frequency Range	Transmit: 1930-1995MHz, Receive: 1850-1915 MHz.
Output Power	0 - 30W per LTE carrier, 120W per Unit for 4x30 configuration, 0 - 60W per LTE carrier, 120W per Unit for 2x60W configuration.
Frequency Tolerance	$\pm 0.05$ ppm
Emission Designators	4M70F9W; 9M32F9W; 14M26F9W

Enclosed in this application package are the FCC Application Form 731, letter of Request for Confidentiality, Table of Contents and the required exhibits. These exhibits contain the technical data and the required statements and documents for equipment certification. The technical contact at Alcatel-Lucent will comply with any request for additional information should the need arise.

The fees are submitted as required for radio equipment certification filing.

Sincerely,

R.J. Pillmeier  
Technical Manager  
FCC Compliance Test Group