



Subject: **Application for an Initial Grant of Equipment
Authorization under FCC ID: AS5ONEBTS-26,
Covering the New RRH2X60-850 Product.**

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March 23, 2012

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

Dear Mr. Sanders:

Alcatel-Lucent's new -48V WCDMA **RRH2X60-850** twin Remote Radio Head product will be deployed in combination with the **9396 d2U** Digital Baseband Unit (BBU). Deployment of this Universal Mobile Telecommunications System (UMTS) will be in the North America Region (NAR). This product consists of two independent 60W power amplifiers (PA) and two independently settable transceivers.

The Frequency Spectrum subject of this application is **Part 22—Public Mobile Services, Subpart H—Cellular Radiotelephone Service 869-894 MHz**. The RF power at the downlink (DL) antenna terminal to be authorized is:

- 1) single carrier operation (1C) at 60 Watts (+47.8 dBm) for each of the two (2) transmit paths (Tx1 and Tx2)
- 2) two carrier operation (2C) at 30W/C (+44.8 dBm/C) for total composite power of 60W per transmit path

Enhanced Digital Predistortion (EDPD) and Closed Loop Gain Control (CLGC) are also features that are enabled with each carrier setting.

The footnote on the Grant should read:

The RRH2X60-850 is rated for 60W single carrier RF power per transmit antenna terminal and 60W total composite power for multiple carriers.

This system complies both with the Federal Communication Commission (FCC) Rules and Regulations (47 CFR Part 22H), and with the European Telecommunications Standards Institute (ETSI) 3rd Generation Partnership Project (3GPP) Technical Specifications TS 25.104 and TS 25.141. UMTS functionality was developed in accordance to the guidelines of the standard: ETSI TS 125 141 V7.15.0 (2010-02) Universal Mobile Telecommunications System (UMTS); Base Station (BS) conformance testing (FDD); (3GPP TS 25.141 version 7.15.0 Release 7). The measurement exhibits attached to this application demonstrate full compliance with both FCC Part 22—Public Mobile Services, Subpart H—Cellular Radiotelephone Service and with ETSI TS 25.141, 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 Acceptable for Licensing.

Manufacturer	Alcatel-Lucent USA, Inc.
Equipment Identification	AS5ONEBTS-26
Rules Part Number	Part 22—Public Mobile Services, Subpart H—Cellular Radiotelephone Service
Frequency Ranges	Transmit 869–894 MHz
Output Power	60 Watts (+47.8 dBm) at each of the 2 Tx antenna terminals (Tx1 & Tx2)
Frequency Tolerance	± 0.05 ppm
Emission Designator	4M20F9W

Attached are the FCC Form 731 (Application for Equipment Authorization – Radio Frequency Devices) and the required measurement data and exhibits specific to this request for a Grant of Equipment Authorization. The technical contact at Alcatel-Lucent USA, Inc., will comply with any request for additional information should the need arise. The attached exhibits are assembled and presented in the sequence recommended by Timco Engineering, in accordance with the *Table of Contents* attachment.

Permanent confidentiality is requested for the exhibits listed below, and will be formally requested in a separate written request for confidentiality.

09-OpDes_AS5ONEBTS-26_CONFIDENTIAL
 10-BlkDia_AS5ONEBTS-26_CONFIDENTIAL
 11-Schem_AS5ONEBTS-26_CONFIDENTIAL
 15T-PartsLst_AS5ONEBTS-26_CONFIDENTIAL

Sincerely,

Rudolf J. Pillmeier
 GPCL Technical Manager
 FCC/EMC Compliance Test Group

Att.
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