

### Exhibit 3 FCC REQUIRED INFORMATION

The following information is presented in the content and format requested by the FCC:

#### Section 2.1033 (c)(1):

The full name and mailing address of the manufacturer of the device and the applicant for certification.

Manufacturer:

**Alcatel-Lucent USA Inc.**  
**Building 28-114H**  
**600-700 Mountain Avenue, P.O. Box 636**  
**New Providence, 07974-0636**  
**Attention: Raymond J. Johnson**

Applicant:

**Alcatel-Lucent USA Inc.**  
**Building 28-114H**  
**600-700 Mountain Avenue, P.O. Box 636**  
**New Providence, 07974-0636**  
Attention: Raymond J. Johnson  
Phone: 908-582-5575  
email: [ray.johnson@alcatel-lucent.co](mailto:ray.johnson@alcatel-lucent.co)

Alcatel-Lucent USA Inc. will be the manufacturer of this product. The AS5BBTRX-22 will only be marketed under the Alcatel-Lucent trademark.

**Section 2.1033(c)(2): FCC Identifier: AS5BBTRX-22**

**Section 2.1033(c)(4): Type or types of emission: 20M0F9W**  
**This designator is requested for authorization of 20 MHz bandwidth LTE Transmission**

**Previously authorized types of transmission were: 5M00F9W, 10M0F9W and 15M0F9W.**

This Transceiver System supports multiple LTE and other technologies. The subject of this certification is a request for operation using the Long Term Evolution modulation format (LTE) for a 20 MHz emission bandwidth carrier (20M00F9W). The transceiver can be configured for the various technologies by varying the digital information provided from the baseband channel electronics alone without physical, hardware or circuit changes to the transceiver.

**Section 2.1033(c)(5): Frequency range, Transmit: 1930–1995 MHz PCS Blocks A-D-B-E-F-C and G**

**Section 2.1033(c)(6):** Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power.

The Alcatel-Lucent's **PCS LTE RRH 4x30 Band 25 Outdoor Transceiver System** FCC ID: **AS5BBTRX-22** is capable of producing continuous 20 MHz emission bandwidth LTE RF carriers (20M0F9W) at an overall total power of 120W for all for ports. The per port mean power level varies depending upon whether the product is operated in 2xMIMO or 4xMIMO mode of operation. The per port power will range from:

From 0.03 W up to 30W maximum (+44.77 dBm) at each of its four antenna transmit terminals.

or

From 0.06 W up to 60W maximum (+47.78 dBm) at two of its antenna transmit terminals.

The carrier output power level of the **PCS LTE RRH 4x30 Band 25 Outdoor Transceiver System** is adjustable digitally over a 30 dB range. The transmit filters provides RF feedback to the transceivers in the form of CLGC (Closed Loop Gain Control) and Alcatel-Lucent's proprietary Enhanced Digital Pre-Distortion (EDPD) technology to provide constant output power over temperature. The features are controlled by software.

**Exhibit 3 FCC REQUIRED INFORMATION *continued*****Section 2.1033(c)(7):** Maximum power rating as defined in the applicable part (s) of the rules.

The maximum continuous RF output power available at the sum of the antenna transmit terminals is 120 W (+50.79 dBm).

The product can produce a maximum of 60W maximum (+47.78 dBm) at each of two antenna transmit terminals

or,

The product can produce a maximum of 30W maximum (+44.77 dBm) at each of its four antenna transmit terminals.

**Section 2.1033 (c)(10):** A description of all circuitry and devices for determining and stabilizing frequency.

The Alcatel-Lucent's **PCS LTE RRH 4x30 Band 25 Outdoor Transceiver System FCC ID: AS5BBTRX-22** is a 65 MHz instantaneous bandwidth digital transceiver designed to operate in the Broadband PCS frequency spectrum. This application specifically addresses the transceiver utilizing a 20 MHz carrier emission bandwidth LTE signal. Frequency stability of the LTE carrier frequency is achieved with an accuracy better than the rated  $\pm 0.05$  ppm by reference frequency locking using a proprietary phase-locked-loop (PLL) circuitry. External reference timing is provided by locking to an external frequency disciplined reference signals.

The **PCS LTE RRH 4x30 Band 25 Outdoor Transceiver System** can use either a GPS or other system provided frequency discipline synchronization. As a hardware variant, the RRH 4x30 B25 LTE module can be configured with a GPS connector which can be used to connect an optional external GPS antenna.

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