

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: **Nokia Solutions and Networks, OY**
2000 Lucent Lane
Naperville, Illinois 60563
Attention: Terry P. Schwenk

Applicant: **Nokia Solutions and Networks, OY**
2000 Lucent Lane
Naperville, Illinois 60563
Attention: Terry P. Schwenk
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Section 2.1033(c)(2): FCC Identifier: **2AD8UAEUDAEUE01**

Section 2.1033(c)(4): Type or types of emission: **98M0G7W, Four carrier aggregate of 398MG7W**

This Transceiver System supports the **3GPP 5G New Radio** and other LTE technologies. The subject of this certification request is for operation using the **3GPP 5G New Radio** modulation format in QPSK, 16QAM and 64QAM (LTE-TDD) for one to four carriers. The transceiver can be configured for the various transmit configurations 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 / Receive: **27.5 – 28.35 GHz**

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.

Response:

The Nokia **AEUD + AEUE AirScale 28 GHz Radio Units FCC ID: 2AD8UAEUDAEUE01** is capable of producing two 48 dBm EIRP transmit beams (horizontally and vertically polarized) for a total transmit power of 51 dBm EIRP.

RF Power control of the AEUD + AEUE transceiver is accomplished via software control of the data stream and the RF power gain. The software controls the RF power gain through the RF transmit path with a Digital Step Attenuator (DSA) to maintain the correct RF power of the AEUD + AEUE over frequency and temperature range. The DSA gain control has a resolution of 0.25 dB per step and an overall range of 11 dB.

Separate circuitry is provided to inhibit the carrier output if a synthesizer in the transmit path loses lock.

Exhibit 3 FCC REQUIRED INFORMATION *continued*

Section 2.1033(c)(7): Maximum power rating as defined in the applicable part (s) of the rules.

Response:

This product can produce two individual 48dBm EIRP beams (63W EIRP).

The sum of these two 48 dBm EIRP beams results in the Maximum Total Power of 51 dBm EIRP (126W EIRP)

The maximum continuous RF output power available is the sum of the horizontal and vertical transmit beams generated by individual 8x8 antenna assemblies. There are no antenna connections. Each antenna assembly distributes 25dBm of RF power with an overall gain of 23dBi. This results in a radiated power of 48dBm EIRP per antenna assembly for a Total Radiated Power of 51dBm EIRP

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

Response:

The Nokia **AirScale 28 GHz Radio Unit (AEUD/E)**, FCC ID: 2AD8UAEUDAEUE01 is a 1400 MHz instantaneous bandwidth digital transceiver designed to operate in the **Part 30 Upper Microwave Flexible Use Service** spectrum. The FPGA to A/D transceiver in this product is designed to utilize 50 and 100 MHz carrier emission bandwidth **5G-NR** signals which are up-converted to the 27.5-28.35 GHz Band. The frequency stability of the **5G-NR** carrier frequency is maintained with an accuracy better than the rated ± 0.05 ppm by reference frequency locking the phase-locked-loop (PLL) circuitry to a stable internal reference oscillator. External reference timing is provided by locking to an external frequency disciplined reference signals. Separate circuitry is provided to inhibit the carrier output if a synthesizer in the transmit path loses lock

The **AirScale 28 GHz Radio Unit** is supplied its frequency discipline synchronization for reference from the baseband information source which is GPS capable.