

EXHIBIT 10
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APPLICANT:
Ericsson Radio System AB

FCC ID NO.
B5KKRC13149-15

EXHIBIT 10 - COVER SHEET

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2.1033 (c)(10) Function of Active Circuit Devices

Printed Circuit Board, PBU (1911-ROA 117 9348/4)

| | | |
|------|--|-----------------|
| A1 | PRINTED BOARD/PBU 1900 | TVK 117 9048 |
| D1 | MICROCIRCUIT/PW-CONTROLLER | RYT 113 006/4C |
| D2 | MICROCIRCUIT/LM6511 3V COMPARATOR | RYT 101 083/C |
| D3 | MICROCIRCUIT/PW-CONTROLLER | RYT 113 006/4C |
| D4 | MICROCIRCUIT/LM431 ADJ REGULATOR | RYT 113 008/3C |
| D5 | MICROCIRCUIT/LM431 ADJ REGULATOR | RYT 113 008/3C |
| D6 | MICROCIRCUIT/LM239 | RYT 101 6121/2C |
| D101 | MICROCIRCUIT/CURRENT-MODE PWM | RYT 113 6053/4 |
| D102 | MICROCIRCUIT/RAIL-TO-RAIL OPAMP <i>Changed</i> | RYT 101 6121/2C |
| N201 | MICROCIRCUIT/QUAD 8-BIT NONVOLATILE DACPOT | RYT 120 6071/1 |
| N202 | MICROCIRCUIT/AV102-10, VARIABLE ATTENUATOR | RYT 115 6029/1 |
| N203 | MICROCIRCUIT/RF2125P | RYT 101 6870/1 |
| N206 | MICROCIRCUIT/LM337 | RYT 113 6023/1C |
| N207 | MICROCIRCUIT/OP-AMPLIFIER | RYT 101 030/C |
| N208 | MICROCIRCUIT/EEPROM 8K8 SPI 2.7V-5.5V <i>Removed</i> | RYT 118 6058/2 |
| N209 | MICROCIRCUIT/TEMP. SENSOR FAHERNHEIT | RYT 124 6015/1 |
| N301 | MICROCIRCUIT/MC33077 | RYT 101 6072/2C |
| N302 | MICROCIRCUIT/MC33077 | RYT 101 6072/2C |
| M201 | CIRCULATOR/PILL,1930-1990MHZ | KRY 101 1540/2 |
| T1 | TRANSFORMER/ | REG 254 2401 |
| T2 | TRANSFORMER/ | REG 254 2401 |
| T101 | TRANSFORMER/ | REG 544 2302 |

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2.1033 (c)(10) Function of Active Circuit Devices

Printed Circuit Board, PBU (1911-ROA 117 9348/4)

| | | |
|------|---|----------------|
| V1 | DIODE/BAS16,HIGH SPEED,SOT-23 | RKZ 123 612 |
| V7 | TRANSISTOR/SI.AF TRANS.PNP,SOT-223 | RYN 120 615/1 |
| V9 | DIODE/DUAL SWITCHING, COMMON CATHODE | RKZ 123 03/3 |
| V10 | TRANSISTOR/POWER MOSFET,DPAK Changed | RYN 122 657/2 |
| V11 | TRANSISTOR/POWER MOSFET,DPAK Changed | RYN 122 657/2 |
| V14 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |
| V15 | REGULATOR DIODE/5.6V, 0.225W, SOT-23 | RKZ 223 01/10 |
| V16 | TRANSISTOR/SIL.AF TRANSIST.NPN, SOT23 | RYN 121 6068/1 |
| V17 | DIODE/DUAL SWITCHING, IN SERIES | RKZ 123 03/1 |
| V18 | REGULATOR DIODE/3.9V, 0.225W, SOT-23 | RKZ 223 01/6 |
| V19 | TRANSISTOR/SIL.AF TRANSIST.NPN, SOT23 | RYN 121 6068/1 |
| V20 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |
| V21 | REGULATOR DIODE/10V, 0.225W, SOT-23 | RKZ 223 01/16 |
| V22 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |
| V23 | REGULATOR DIODE/5.6V, 0.225W, SOT-23 | RKZ 223 01/10 |
| V24 | TRANSISTOR/BCP56-16 | RYN 121 637/2 |
| V25 | TRANSISTOR/NCH 60V 50A TO263 LOG LEVEL | RYN 123 24/1 |
| V30 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |
| V33 | TRANSISTOR/SIL.AF TRANSIST.NPN, SOT23 | RYN 121 6068/1 |
| V34 | REGULATOR DIODE/DIOD ZE15V 5% 0.2W SOT23 | RKZ 223 01/20 |
| V38 | TRANSISTOR/SIL.AF TRANSIST.NPN, SOT23 | RYN 121 6068/1 |
| V39 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |
| V41 | REGULATOR DIODE/10V, 0.225W, SOT-23 | RKZ 223 01/16 |
| V42 | TRANSISTOR/D-PAK IRFR120 | RYN 123 617/1 |
| V101 | TRANSISTOR/SIL.AF TRANSIST.NPN, SOT23 | RYN 121 6068/1 |
| V102 | DIODE/BAS16,HIGH SPEED,SOT-23 | RKZ 123 612 |
| V103 | TRANSISTOR/D-PAK IRFR120 | RYN 123 617/1 |
| V109 | TRANSISTOR/SIL.AF TRANSIST.NPN, SOT23 | RYN 121 6068/1 |
| V110 | TRANSISTOR/SIL.AF TRANSIST.NPN, SOT23 | RYN 121 6068/1 |
| V201 | DIODE/DUAL SWITCHING, IN SERIES | RKZ 123 03/1 |
| V203 | TRANSISTOR/LDMOS New | RYN 123 1634/1 |
| V205 | TRANSISTOR/SOT-23 BCX70J | RYN 121 629/1 |
| V212 | TRANSISTOR/LDMOS New | RYN 123 1635/1 |
| V302 | TRANSISTOR/SOT-23 BCX70J | RYN 121 629/1 |
| V303 | TRANSISTOR/SOT-23 BCX70J | RYN 121 629/1 |
| V304 | TRANSISTOR/SOT-23 BCX70J | RYN 121 629/1 |
| V306 | TRANSISTOR/SOT-23 BCX70J | RYN 121 629/1 |
| V307 | TRANSISTOR/SOT-23 BCX70J | RYN 121 629/1 |
| V308 | TRANSISTOR/SOT-23 BCX70J | RYN 121 629/1 |
| V309 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |
| V310 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |
| V311 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |
| V312 | TRANSISTOR/SOT-23 BCX71J | RYN 120 614/1 |

V313 TRANSISTOR/SOT-23 BCX71J
V314 TRANSISTOR/SOT-23 BCX71J

RYN 120 614/1
RYN 120 614/1

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TUNE-UP PROCEDURE

2.1033 (c)(9) Tune-Up Procedure

All the necessary adjustments will be set in the factory, and no adjustments are needed. The output power level is remotely controlled by the Base Station Controller (BSC). If the TRU is not able to maintain the requirements for power output, frequency stability, etc an alarm is sent to the BSC. On severe faults the TRU will disable transmission.

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CIRCUIT AND DEVICE DESCRIPTIONS

2.1033 (c)(9,10) Power Tune-Up - Power Limiting

The TRU measures the output power at its output connector via a RF-detector and the detected value is used by the power loop control block to steer two variable gain amplifiers between the modulator and the power amplifier.

The transmitter contains three synthesized oscillators. One gives a 160 MHz signal to the I/Q modulator. The two other generate a 1770 to 1830 MHz signal to the mixer where the modulated signal is unconverted to the transmit frequency. Two oscillators are needed in frequency hopping mode, one is retuning while the other is active. All three synthesized oscillators have as reference a 13 MHz sinusoidal signal generated in a phase locked loop (PLL) in the TRU. The PLL is locked to a 270.8 kHz signal, which is generated and distributed, to all TRU in the basestation by the DXU (Distribution Switch Unit).

The frequency reference from DXU is generated in a voltage controlled oscillator placed in an oven which is frequency locked to a long term stable oven heated oscillator or as an option to the incoming PCM-link frequency.