

APPLICANT:

Ericsson Radio System AB

EXHIBIT 10

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FCC ID NO.

B5KKRC12110-21

EXHIBIT 10 - COVER SHEET

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FUNCTION OF ACTIVE CIRCUIT DEVICES

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

Function Block Digital Control (1911-ROZ 104 03)

D1	8XLINEDRIVER TS
D2	PLD
D4	ASIC TRISTAN, CONTROL Radio & Synthesizer
D6	DSP, PLL- & PCM-link Control
D8	SRAM 64k16
D9	FLASHROM 256k16
D100	DSP, Receiver
D101	SRAM 64k16
D102	ASIC ISOLET, RSSI Receiver, IfA- & IfB- Receiver
D104	DSP, Receiver
D201	FlipFlop P-edge Trigger
D202	Inverter
D203	D-type FlipFlop
D204	Inverter
D206	Inverter
D300	D-type FlipFlop
N1	Reset Circuit
N100	VCO 27.300 MHz
N200	ASIC ADDA, A/D-converter, D/A-converter
N203	Voltage Reference
N204	VCO 19.44 MHz
N300	Switch Regulator
N301	Switch Regulator
V3	Driver FlashROM VPP
V4	Driver FlashROM VPP
V6	LED Driver
V8	LED Driver
V200	Voltage Regulator
V201	Voltage Regulator
V202	Voltage Regulator
V203	Voltage Regulator
V204	Voltage Regulator
V205	Voltage Regulator

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FUNCTION OF ACTIVE CIRCUIT DEVICES

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

Function Block RXRF (1911-ROZ 104 04)

N602 ASIC ODEN, Downconverter

T601 Balun

T621 Balun

T622 Balun

V650 Voltage Regulator

V651 Voltage Regulator

Function Block RXIF (1911-ROZ 104 05)

N801 ASIC FREJA, If Circuit

N810 BandPassFilter 62.94 MHz

N820 BandPassFilter 62.94 MHz

N811 BandPassFilter 455 kHz

N821 BandPassFilter 455 kHz

T800 Transformer

V800 Voltage Regulator

V801 Voltage Regulator

Function Block IFLO (1911-ROZ 104 06)

N700 Voltage Regulator

N701 PLL Synthesizer

N702 PLL Synthesizer

N750 Voltage Regulator

V703 Amplifier

V707 Amplifier

V710 Voltage Regulator

V711 Voltage Regulator

V712 Voltage Regulator

V753 Amplifier

V757 Amplifier

V760 Voltage Regulator

V761 Voltage Regulator

V762 Voltage Regulator

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FUNCTION OF ACTIVE CIRCUIT DEVICES

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

Function Block FG (1911-ROZ 104 07)

N903 PLL Synthesizer
N905 Amplifier
N907 Oscillator 761 - 786 MHz

V923 Voltage Regulator
V924 Voltage Regulator
V925 Voltage Regulator

Function Block LX (1911-ROZ 104 08)

D401 Inverter

N401 Differential Amplifier 4pcs
N402 ASIC GLEIPNER, Linearization
N403 Band Pass Filter
N404 Amplifier
N407 Voltage Regulator
N408 Voltage Regulator
N409 Voltage Reference
N411 ASIC RIO, Serial/Parallel Interface
N415 Amplifier
N416 Voltage Regulator

T401 Transformer
T402 Transformer
T403 Transformer
T404 Transformer

V411 VSWR Alarm Driver
V412 Voltage Regulator
V413 Voltage Regulator
V420 Power Setting Driver
V421 Power Setting Driver
V422 Power Setting Driver

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FUNCTION OF ACTIVE CIRCUIT DEVICES

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

Function Block TXPA (1911-ROZ 104 09)

N503 Direction Coupler
N504 Controllable Voltage Regulator
N511 Temperature Sensor

V501 1st Amplifier
V502 2nd Amplifier
V511 Bias V501
V512 Bias V502
V514 VSWR Alarm
V515 Driver Controllable Voltage Regulator

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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 should need no adjustments out in the field (pre-tuned coils are used, etc.). If the TRX is not able to maintain the requirements for power output, frequency stability, etc., the Switch will give an indication that the TRX needs service. If it is a great failure, the EMRPS will shut down the TRX without confirmation from the Switch.

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CIRCUIT AND DEVICE DESCRIPTIONS

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

The EMRPS function allows the RF power output to be set from 0 dB to - 20 dB attenuation in 0.2 dB steps from the MSC (Mobile Switching Center). The power levels can be in the range from a minimum of 110 milliwatts to a maximum of 11 watts at the output of the TRX.

The EMRPS supervises the feedback loop (RFF) From the Coupler stage to Linearization by checking the baseband signals. If the power output changes, the EMRPS will adjust the gain in the exciter amplifier.

If some fault happens in the output power circuits, the EMRPS will compare the fault with prestored values and report the fault to the Switch via alarm codes in different levels. The highest alarm level is a serious fault and this alarm will get the EMRPS to shut down the output power stages without confirmation from the Switch.