

APPLICANT:
Ericsson Radio Systems AB

FCC ID NO.
B5KKRC16131

EXHIBIT LIST

<u>Exhibit No.</u>	<u>Paragraph. Ref.</u>	<u>Description</u>
3A-E	2.983 (d, 6)	Function of Active Circuit Devices
6	2.983 (d, 9)	Alignment Procedure

FUNCTION OF ACTIVE CIRCUIT DEVICES

2.983(d)

(6) Micro Cabinet

Transmitter Unit - TXU (ROA 117 4651/1)

D1	Micro Circuit	EEPROM 8K8 SPI 2.7V-5.5 I
D2	Micro Circuit	IC ASIC TRACY
D3	Micro Circuit	LT1016 VOLTAGE COMPARATOR
D4	Micro Circuit	IC ASIC BALDER
N8	Micro Circuit	LP2951A
N9	Micro Circuit	MAX664
N10	Micro Circuit	REF02
N11	Micro Circuit	SYNTMODUL FÖR PCS, TX.
N12	Micro Circuit	SYNT -160 TX
N14	Micro Circuit	SYNTMODUL FÖR PCS, TX.
N16	Micro Circuit	AT309
N20	Micro Circuit	MC34072
N21	Micro Circuit	AM55-0004, LINEAR AMPLIFIER
N22	Micro Circuit	MC34072
N23	Micro Circuit	MC34072
T1	Transformer	BALUN 50/200 OHM 1960 MHz
T2	Transformer	BALUN 50/200 OHM 1960 MHz
T3	Transformer	BALUN 50/200 OHM 1960 MHz
T4	Transformer	BALUN 50/200 OHM 1960 MHz
T7	Transformer	SMD TRANSFORMER 4:1
V2	Transistor	BCP56-10
V3	Transistor	BCP56-10
V4	Transistor	BCP56-10
V5	Transistor	BCP56-10
V6	Transistor	SLAF TRANS.PNP,SOT-223
V21	Transistor	SOT-23 BCX71J
V22	Transistor	SOT-23 BCX71J
V23	Transistor	SOT-23 BCX71J
V31	Transistor	SOT-23 BCX70J
V32	Transistor	PTB20216
V33	Transistor	CLY5
V34	Transistor	PTB20180
V35	Transistor	BCP56-10
V37	Transistor	SOT-23 BCX70J
V38	Transistor	BCP56-10
V39	Transistor	SOT-23 BCX70J
V43	Transistor	SOT-23 BCX71J
W1	Circulator	Pill, 1930-1990MHZ
Z3	Filter	1960MHZ
Z4	Filter	1960MHZ
Z5	Filter	1880 BW=30MHZ

FUNCTION OF ACTIVE CIRCUIT DEVICES

Micro Cabinet

Receiver Divider Amplifier - RXDA (ROA 117 4646/1)

N1	Transistor	ACTIVE BIAS CONTR.SOT-343
N2	Transistor	ACTIVE BIAS CONTR.SOT-343
N3	Transistor	LP2951A
N4	Transistor	LP2951A
N5	Transistor	MC34072
N6	Transistor	MC34072
V1	Transistor	BFP420,NPN RF ,SOT343
V2	Transistor	BFP420,NPN RF ,SOT343
V3	Transistor	BC/BW846-8
V4	Transistor	BC/BW846-8
D1	Micro Circuit	PCF8574
D2	Micro Circuit	EEPROM 8K8 I2C 5.0V

FUNCTION OF ACTIVE CIRCUIT DEVICES

Micro Cabinet

Receiver Unit - RXU (ROA 117 2112/2)

T103	Transformer	BALUN 50/50 OHM 1880 MHz
T104	Transformer	BALUN 50/50 OHM 1880 MHz
T105	Transformer	SMD TRANSFORMER
T106	Transformer	SMD TRANSFORMER
V201	Transistor	GENERAL TRANS.PNP, SOT-323
V202	Transistor	GENERAL TRANS.PNP, SOT-323
V203	Transistor	GENERAL TRANS.PNP, SOT-323
V204	Transistor	GENERAL TRANS.PNP, SOT-323
V205	Transistor	BFG520/X
V206	Transistor	BFG520/X
V401	Transistor	GENERAL TRANS.PNP, SOT-323
V405	Transistor	
V406	Transistor	
X101	Filter	1880 BW=30 MHz
X102	Filter	1880 BW=30 MHz
X903	Filter	201MHZ
X904	Filter	6.0MHZ
X905	Filter	6.0MHZ
X908	Filter	201MHZ
Z101	Micro Circuit/	IC ASIC ULLA II
Z102	Micro Circuit/	SYNTMODUL FÖR PCS, RX.
Z103	Micro Circuit/	SYNTMODUL FÖR PCS, RX.
Z104	Micro Circuit/	7805
Z105	Micro Circuit/	7805
Z106	Micro Circuit/	MAX664
Z107	Micro Circuit/	LM35
Z108	Micro Circuit/	7S04 INVERTER SSOP5-P
Z109	Micro Circuit/	7S04 INVERTER SSOP5-P
Z201	KRETSKORT	SYNT -195 RX
Z202	Micro Circuit/	IC ASIC FREJA E
Z205	Micro Circuit/	LP2951A
Z206	Micro Circuit/	LP2951A
Z207	Micro Circuit/	LP2951A
Z401	Micro Circuit/	IC ASIC DIXIE
Z402	Micro Circuit/	IC ASIC DANNIE
Z403	Micro Circuit/	1485 RS485 LINE TRANSCEIVER
Z404	Micro Circuit/	EEPROM 8K8 SPI 5.0V I
Z405	Micro Circuit/	7805
Z406	Micro Circuit/	ADC 0820
Z407	Micro Circuit/	74AC74 2XD FLIP-FLOP
Z408	Micro Circuit/	7S04 INVERTER SSOP5-P

FUNCTION OF ACTIVE CIRCUIT DEVICES

Micro Cabinet

Transceiver Control Board - TCB (ROA 117 3677/1-2)

V07	Transistor	P-CHANNEL,DMOS,SOT223
V08	Transistor	P-CHANNEL,DMOS,SOT223
V11	Transistor	N-CH,FET,SOT-23 ,BSS138
V12	Transistor	N-CH,FET,SOT-23 ,BSS138
Z1	Oscillator	26.000MHZ
Z4	Micro Circuit	74AC74 2XD FLIP-FLOP
Z7	Micro Circuit	74HC32
Z8	Micro Circuit	74HC32
Z20	Micro Circuit	74ACT08 4X2-INPUT AND-GATE
Z21	Micro Circuit	74ACT08 4X2-INPUT AND-GATE
Z23	Micro Circuit	74AC04 6X1 INVERTER
Z24	Micro Circuit	74AC04 6X1 INVERTER
Z25	Micro Circuit	74LCX245 8 X BUS TRANSCEIVER T
Z26	Micro Circuit	74LCX245 8 X BUS TRANSCEIVER T
Z27	Micro Circuit	74LCX245 8 X BUS TRANSCEIVER T
Z28	Micro Circuit	74LCX245 8 X BUS TRANSCEIVER T
Z30	Micro Circuit	LP2951A
Z31	Functional Circuit	TRUD PLD1
Z32	Functional Circuit	TRUD PLD1
Z33	Functional Circuit	TRUD PLD7
Z34	Functional Circuit	TRUD PLD7
Z41	Micro Circuit	MC34072
Z42	Micro Circuit	PMB2306T
Z45	Micro Circuit	EEPROM 8K8 SPI 2.7V-5.5 I
Z46	Micro Circuit	EEPROM 8K8 SPI 2.7V-5.5 I
Z47	Functional Circuit	TCBPROM6TRX
Z48	Functional Circuit	TCBPROM6TRX
Z49	Micro Circuit	DRAM 2M8 50NS 3.3V EDO
Z50	Micro Circuit	DRAM 2M8 50NS 3.3V EDO
Z51	Micro Circuit	DRAM 2M8 50NS 3.3V EDO
Z52	Micro Circuit	DRAM 2M8 50NS 3.3V EDO
Z53	Micro Circuit	DRAM 2M8 50NS 3.3V EDO
Z54	Micro Circuit	DRAM 2M8 50NS 3.3V EDO
Z55	Micro Circuit	DRAM 2M8 50NS 3.3V EDO
Z56	Micro Circuit	DRAM 2M8 50NS 3.3V EDO
Z58	Micro Circuit	SRAM 64K16 15NS 5.0V
Z60	Micro Circuit	SRAM 64K16 15NS 5.0V
Z63	Micro Circuit	44-PLCC 82525
Z64	Micro Circuit	44-PLCC 82525
Z65	Micro Circuit	29243-25 3,3V E2
Z66	Micro Circuit	29243-25 3,3V E2
Z67	Micro Circuit	IC ASIC ASTRA
Z68	Micro Circuit	IC ASIC ASTRA
Z69	Micro Circuit	ASIC TORA 2_9 (1) / ASIC FELICIA 2_9 (2)

FUNCTION OF ACTIVE CIRCUIT DEVICES

Micro Cabinet

Transceiver Control Board - TCB (ROA 117 3677/1-2) cont.

Z70	Micro Circuit	ASIC TORA 2_9 (1) / ASIC FELICIA 2_9 (2)
Z85	Micro Circuit	74HC32
Z87	Micro Circuit	LOW DROPOUT 5V POS VOLT REG
Z96	Micro Circuit	MC34072
Z97	Micro Circuit	74AC86 4X2 EXOR
Z99	Oscillator	50MHZ
Z100	Micro Circuit	82B715 I2C-BUS EXPANDER
Z102	Micro Circuit	74AC08 4X2 AND
Z103	Micro Circuit	74*74 ACTQ 2XD FLIP-FLOP
Z104	Functional Circuit	DSP GLUE PLD
Z105	Functional Circuit	DSP GLUE PLD
Z106	Micro Circuit	DSP 1620
Z107	Micro Circuit	DSP 1620
Z108	Micro Circuit	DSP 1620
Z109	Micro Circuit	DSP 1620
Z110	Micro Circuit	DSP 1620
Z111	Micro Circuit	DSP 1620
Z112	Micro Circuit	3384 10X BUS SWITCH
Z113	Micro Circuit	3384 10X BUS SWITCH
Z114	Micro Circuit	3384 10X BUS SWITCH
Z115	Micro Circuit	3384 10X BUS SWITCH
Z116	Micro Circuit	3384 10X BUS SWITCH
Z117	Micro Circuit	3384 10X BUS SWITCH
Z118	Micro Circuit	3384 10X BUS SWITCH
Z119	Micro Circuit	3384 10X BUS SWITCH
Z120	Micro Circuit	74ACT244 8XLINE DRIVER TS
Z121	Micro Circuit	74ACT244 8XLINE DRIVER TS
Z122	Micro Circuit	SRAM 64K16 15NS 3.3V C
Z123	Micro Circuit	SRAM 64K16 15NS 3.3V C
Z126	Micro Circuit	74HCT32 4X2 OR
Z127	Micro Circuit	74HCT174 6X1 D-TYPE FF
Z128	Micro Circuit	74 ACTQ 574
Z129	Micro Circuit	74 ACTQ 574
Z130	Micro Circuit	74HC164
Z131	Micro Circuit	74HC164
Z132	Micro Circuit	74ACT125 4XBUFFER TS
Z133	Micro Circuit	74HC163
Z134	Micro Circuit	74HC163
Z135	Micro Circuit	74HC74
Z136	Micro Circuit	74HC04
Z137	Micro Circuit	74ACT153 2X 4-INP MULTIPLEXER
Z140	Micro Circuit	74HCT541 8X BUFF/LINE DRIV 3S
Z141	Micro Circuit	74HCT541 8X BUFF/LINE DRIV 3S
Z142	Micro Circuit	74HC153 2X4 MULTIPLEXER
Z143	Micro Circuit	2.93V SUPERVISORY

FUNCTION OF ACTIVE CIRCUIT DEVICES

Micro Cabinet

Transceiver Control Board - TCB (ROA 117 3677/1-2) cont.

Z146	Micro Circuit	MAX809 RESET CIRCUIT 4.63V
Z147	Micro Circuit	MAX809T RESET CIRCUIT 3.08V
Z148	Micro Circuit	DRAM 4M4 50NS 3.3V EDO C
Z149	Micro Circuit	DRAM 4M4 50NS 3.3V EDO C
Z150	Micro Circuit	DRAM 4M4 50NS 3.3V EDO C
Z151	Micro Circuit	DRAM 4M4 50NS 3.3V EDO C
Z152	Micro Circuit	DRAM 4M4 50NS 3.3V EDO C
Z153	Micro Circuit	DRAM 4M4 50NS 3.3V EDO C
Z154	Micro Circuit	DRAM 4M4 50NS 3.3V EDO C
Z155	Micro Circuit	DRAM 4M4 50NS 3.3V EDO C
Z156	Micro Circuit	7SZ08 2-INP AND GATE
Z157	Micro Circuit	7SZ04 INVERTER
Z158	Micro Circuit	74HCT166 8-BIT P-IN/SER-OUT SR
Z161	Micro Circuit	74ACT125 4XBUFFER TS
Z162	Micro Circuit	FLASH,512KX8,120NS,2.7V
Z163	Micro Circuit	FLASH,512KX8,120NS,2.7V

FUNCTION OF ACTIVE CIRCUIT DEVICES

Micro Cabinet

Distribution Switch Board - DXB (ROA 117 3678/1-3)

Q4	Transistor	PLANAR EPITAX.NPN.TR. SOT-23
Q5	Transistor	PNP 45V 500MA SOT-323
T6	Transformer	TRANSFORMER
T7	Transformer	TRANSFORMER
Z1	Oscillator	5.0000 MHz
Z2	Micro Circuit	REF03
Z3	Micro Circuit	MC34072
Z4	Micro Circuit	7538 D/A CONVERTER
Z6	Micro Circuit	ASIC PICASSO
Z7	Oscillator	13.0000MHZ
Z9	Micro Circuit	74HCT174 6X1 D-TYPE FF
Z14	Micro Circuit	LXT360 TRANSCIEVER
Z15	Micro Circuit	LXT360 TRANSCIEVER
Z16	Micro Circuit	IC 2035 ACFA
Z17	Micro Circuit	IC 2035 ACFA
Z18	Micro Circuit	EPIC-1
Z20	Micro Circuit	74ACT138 3-8 DEMULTIPLEXER
Z22	Micro Circuit	74HCT244 8XBUFFER/LINE DRIV 3S
Z25	Micro Circuit	74HCT244 8XBUFFER/LINE DRIV 3S
Z30	Micro Circuit	74HCT174 6X1 D-TYPE FF
Z31	Micro Circuit	74HCT541 8X BUFF/LINE DRIV 3S
Z33	Micro Circuit	74HCT541 8X BUFF/LINE DRIV 3S
Z38	Micro Circuit	29243-25 3,3V E2
Z39	Oscillator	50MHZ
Z42	Micro Circuit	MUNICH32 V3.2
Z45	Functional Circuit	DXBPROM6TRXT
Z46	Micro Circuit	32K8 SRAM 85 NS
Z47	Micro Circuit	32K8 SRAM 85 NS
Z48	Micro Circuit	32K8 SRAM 85 NS
Z49	Micro Circuit	32K8 SRAM 85 NS
Z50	Oscillator	32,768MHZ
Z53	Micro Circuit	IC 705 SUPERVISORY CIRCUIT
Z79	Micro Circuit	74ACT04 6X1 INVERTER
Z80	Micro Circuit	74ACT245 8XBUSTANCEIVER TS
Z95	Micro Circuit	DRAM 2M8 50NS 5.0V
Z96	Micro Circuit	DRAM 2M8 50NS 5.0V
Z97	Micro Circuit	DRAM 2M8 50NS 5.0V
Z98	Micro Circuit	DRAM 2M8 50NS 5.0V
Z99	Micro Circuit	75176
Z100	Micro Circuit	74HCT32 4X2 OR
Z102	Micro Circuit	TRANSCEIVER, DUAL
Z103	Micro Circuit	FLASH 1M16 70NS SVT

FUNCTION OF ACTIVE CIRCUIT DEVICES

Micro Cabinet

Distribution Switch Board - DXB (ROA 117 3678/1-3)

Z103	Micro Circuit	FLASH 2M8 70NS 5.0V
Z104	Micro Circuit	FLASH 1M16 70NS SVT
Z104	Micro Circuit	FLASH 2M8 70NS 5.0V
Z105	Micro Circuit	FLASH 1M16 70NS SVT
Z105	Micro Circuit	FLASH 2M8 70NS 5.0V
Z106	Micro Circuit	FLASH 1M16 70NS SVT
Z106	Micro Circuit	FLASH 2M8 70NS 5.0V
Z107	Micro Circuit	EEPROM 128X16 MICROWIRE
Z108	Micro Circuit	74ACT08 4X2-INPUT AND-GATE
Z109	Micro Circuit	DRAM 4M1 50NS 5.0V
Z110	Micro Circuit	DRAM 4M1 50NS 5.0V
Z111	Micro Circuit	DRAM 4M1 50NS 5.0V
Z112	Micro Circuit	DRAM 4M1 50NS 5.0V
Z116	Micro Circuit	74ACT74 2XD FLIP-FLOP
Z119	Oscillator	1.544MHZ SMD
Z120	Functional Circuit	DXB 6TRX SYSTEM TIMING PLD
Z123	Micro Circuit	74HCT166 8-BIT P-IN/SER-OUT SR
Z124	Micro Circuit	74HCT166 8-BIT P-IN/SER-OUT SR
Z129	Micro Circuit	74ACT86 4X2 EXOR
Z130	Micro Circuit	74HCT244 8XBUFFER/LINE DRIV 3S
Z132	Micro Circuit	OP-AMP,LOW VOLTAGE
Z133	Micro Circuit	MAX809T RESET CIRCUIT 3.08V

ALIGNMENT PROCEDURE

2.983(d)

(9) Alignment 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 TRX is not able to maintain the requirements for power output, frequency stability, etc an alarm is sent to the BSC. On severe faults the TRX will disable transmission.