

Confidentiality Class	External Confidentiality Label	Document Type	Sheet
Ericsson Internal			1 (3)
Prepared By (Subject Responsible)	Approved By (Document Responsible)		Checked
EHUAYAN	Hua Yang		
Document Number	Revision	Date	Reference
TA8AKRC161746-1	A	2020-04-07	



Federal Communications Commission
 Authorization & Evaluation Division
 7435 Oakland Mills Road
 Columbia, Maryland 21046
 Attention: Equipment Authorization Branch

Subject: Permissive Change Request for FCC ID: TA8AKRC 161 746-1

To Whom It May Concern:

Ericsson AB requests to authorize additional antennas for Part 96 operations with the FCC Hardware Certified Part 96 CBSD radio device.

Radio Vendor: Ericsson AB
Radio Product Name: Radio 4408 B48
Radio Model Number: KRC 161 746/1
Radio FCC ID: TA8AKRC161746-1

Radio dynamic range:

- Maximum linear conducted power rating at output connector into 50 ohms that meets all OOB requirements [zero additional attenuation, highest power setting allowed, for use with lowest gain external antennas] (dBm): 37dBm per port or 43 dBm total power
- Minimum linear conducted power rating at output connector into 50 ohms that meets all OOB requirements [maximum additional linear attenuation, lowest power setting allowed, for use with highest gain external antennas] (dBm): 10dBm per port or 16 dBm total power
- Note: use of an external cable introduces additional losses that may be compensated appropriately by increasing the radio's power level (reducing the attenuator setting). This cable compensation may be achieved during radio setup.

The Original Equipment Manufacturer (OEM) vendor of the radio states that the use of the following listed external antennas meets all requirements for Part 96 operations. The following specific external antennas may be used in conjunction with this model radio at the appropriate listed power settings.

These antennas will allow this radio to meet the appropriate Part 96 requirements for Maximum EIRP, at below:

- 30 dBm EIRP (for Category A operations), or
- 47 dBm/10MHz EIRP (for Category B operations)

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Total conducted power is shown, for each antenna, with varying signal operating bandwidths.

Table: CBRS Band 48 External antennas authorized by the Original Equipment Manufacturer for use with this radio

Antenna Vendor	Antenna Model Number	Antenna Main Beam Peak Gain [dBi]	LTE Carrier Bandwidth [MHz]	Maximum Total Conducted Power [dBm]	EIRP [dBm/10MHz]	EIRP per Bandwidth [dBm]	Operational Category [A / B]
JMA	CX04OMI336-1C	12	10	35	47	47	B
			20	38	47	50	
JMA	MX02FIT365-01	17.8	10	29.2	47	47	B
			20	32.2	47	50	
JMA	MX04FIT365-01	17.8	10	29.2	47	47	B
			20	32.2	47	50	
Kathrein	800250911	16.1	10	30.9	47	47	B
			20	33.9	47	50	
Kathrein	84010601 / 84010602	7.2	10	39.8	47	47	B
			20	42.8	47	50	
Kathrein	80010249	2	10	43	45	45	B
			20	43	42	45	
Kathrein	80010430	2	10	43	45	45	B
			20	43	42	45	
CommScope	S-65M-R1	18.1	10	28.9	47	47	B
			20	31.9	47	50	
CommScope	SS-360S-F	11.3	10	35.7	47	47	B
			20	38.7	47	50	
Rosenberger	BA-T8T8X65V-01	18	10	29	47	47	B
			20	32	47	50	
Rosenberger	BA-T8X65V-01	18	10	29	47	47	B
			20	32	47	50	
Alpha	AW3014	18	10	29	47	47	B
			20	32	47	50	
Alpha	AW3023	18	10	29	47	47	B
			20	32	47	50	
Alpha	AW3056	19.5	10	27.5	47	47	B
			20	30.5	47	50	
Alpha	AW3089	11	10	36	47	47	B
			20	39	47	50	
Alpha	AW3159	17.3	10	29.7	47	47	B
			20	32.7	47	50	
Alpha	AW3161	17.9	10	29.1	47	47	B
			20	32.1	47	50	
Alpha	AW3523	18.6	10	28.4	47	47	B
			20	31.4	47	50	
Alpha	AW3625	8.5	10	38.5	47	47	B
			20	41.5	47	50	

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Alpha	AW3647	19.5	10	27.5	47	47	B
			20	30.5	47	50	
Alpha	AW3672	8.5	10	38.5	47	47	B
			20	41.5	47	50	
Alpha	AW3711	20.2	10	26.8	47	47	B
			20	29.8	47	50	
CellMax	12004v	19.9	10	27.1	47	47	B
			20	30.1	47	50	
CellMax	13006v	21.1	10	25.9	47	47	B
			20	28.9	47	50	
CellMax	12010v	19.9	10	27.1	47	47	B
			20	30.1	47	50	
CellMax	13011v	21.1	10	25.9	47	47	B
			20	28.9	47	50	
PCTEL	SP3338-17XP65	17	10	30	47	47	B
			20	33	47	50	
PCTEL	SP3338-16QP90	16	10	31	47	47	B
			20	34	47	50	
Denki Kogyo	DK16WDYKDP-10R86F	5	10	42	47	47	B
			20	43	45	48	
Denki Kogyo	DK18BDYKDP-8R54F	5	10	42	47	47	B
			20	43	45	48	
Denki Kogyo	DKOBDYKDP-7R45F	3	10	43	46	46	B
			20	43	43	46	
Galtronics	EXTENT™ P6612	8.5	10	38.5	47	47	B
			20	41.5	47	50	