

- Notes:
1. The BelAir200 supports 2-4 ERM5 radios.
 2. The BelAir100 supports one or two ERM5 radios. The BelAir100T additionally supports a PSM2 radio.

BelAir200 (Includes BelAir200D) Products

Case IA: Standard Quad ERM5 Only Offering: 4 X RAR20051001 (ERM5) 5.725 - 5.850 GHz : 15 dBi or less antennas

Co-location Compliance for Integrated ARM3 IEEE 802.11b/g & ERM5 IEEE 802.11an Radios							
Safety Distance:		32 cm		(12.6 inches)			
Worst-case Total EIRP	Max Power Density	Maximum Number of Radios			Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
[dBm]	[mW/cm ²]				[mW/cm ²]	[mW/cm ²]	
RAR20051001 (ERM5)					0.983	1	Complies
35	0.246	4					

Case 1B: High Gain Quad ERM5 Only Offering: 4 X RAR20051001 (ERM5) 5.725 - 5.850 GHz : 29 dBi or less antennas

Co-location Compliance for Integrated ARM3 IEEE 802.11b/g & ERM5 IEEE 802.11an Radios							
Safety Distance:		160 cm		(63.0 inches)			
Worst-case Total EIRP	Max Power Density	Maximum Number of Radios			Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
[dBm]	[mW/cm ²]				[mW/cm ²]	[mW/cm ²]	
RAR20051001 (ERM5)					0.988	1	Complies
49	0.247	4					

Case 2A: Standard ERM5 + ARM3 Offering: 3 X RAR20051001 (ERM5) 5.725 - 5.850 GHz 15 dBi or less antennas-1 X RAR20000003 (ARM3)

Co-location Compliance for Integrated ARM3 IEEE 802.11b/g & ERM5 IEEE 802.11an Radios								
Safety Distance:		33 cm		(13.0 inches)				
Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
RAR20000003 (ARM3)			RAR20051001 (ERM5)			0.953	1	Complies
35.5	0.259	1	35	0.231	3			

Case 2B: High Gain ERM5 + ARM3 Offering: 3 X RAR20051001 (ERM5) 5.725 - 5.850 GHz with up to 29 dBi antennas and 1 X RAR20000003 (ARM3)

Co-location Compliance for Integrated ARM3 IEEE 802.11b/g & ERM5 IEEE 802.11an Radios								
Safety Distance:		139 cm		(54.7 inches)				
Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
RAR20000003 (ARM3)			RAR20051001 (ERM5)			0.996	1	Complies
35.5	0.015	1	49	0.327	3			

Case 3A: Standard 2 X RAR20051001 (ERM5) 5.725 - 5.850 GHz with 15 dBi or less antennas and 1 X RAR20000003 (ARM3) and 1 X RAR20021001 (ERM1) at 4.94 GHz with 9 dBi omni

Co-location Compliance for Integrated IEEE 802.11b/g (ARM3) & Two IEEE 802.11a (ERM5) & One IEEE 802.11a Public Service Radios --> STANDARD GAIN ANTENNAS											
Safety Distance:		31 cm		(12.2 inches)							
Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
RAR20000003 (ARM3)			RAR20051001 (ERM5)			RAR20021001 (ERM1)					
35.5	0.294	1	35	0.262	2	32	0.131	1	0.949	1	Complies

Case 3B: High Gain 2 X RAR20051001 (ERM5) 5.725 - 5.850 GHz with 29 dBi or less antennas and 1 X RAR20000003 (ARM3) and 1 X RAR20021001 (ERM1) at 4.94 GHz with 25 dBi or less antenna

Co-location Compliance for Integrated IEEE 802.11b/g (ARM3) & Two IEEE 802.11a (ERM5) & One IEEE 802.11a Public Service Radios --> HIGH GAIN ANTENNAS											
Safety Distance:		89 cm		(35.0 inches)							
Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
RAR20000003 (ARM3)			RAR20051001 (ERM5)			RAR20051001 (ERM1)					
35.5	0.036	1	39	0.080	2	49	0.798	1	0.993	1	Complies

BelAir100 (Includes BelAir100T, BelAir100C, BelAir100D, BelAir100M, BelAir100S)

Case 4A: Standard Gain BelAir100T : 1 X RAR20051001 (ERM5) 5.725 - 5.850 GHz with 10.5 dBi or less antennas and 1 X RAR20000003 (ARM3) 8 dBi and 1 X RAR20008001 (PSM2) 9 dBi or less

Co-location Compliance for Integrated ARM3 IEEE 802.11b/g & ERM5 IEEE 802.11a/n & PSM2 IEEE 802.11a Public Service Radios --> STANDARD GAIN ANTENNAS											
Safety Distance:		24 cm		(9.4 inches)							
Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
RAR20000003 (ARM3)			RAR20051001 (ERM5)			RAR20008001 (PSM2)					
35.5	0.490	1	30.5	0.155	1	33	0.276	1	0.921	1	Complies

Case 4B: High Gain BelAir100T : 1 X RAR20051001 (ERM5) 5.725 - 5.850 GHz with 29 dBi or less antennas and 1 X RAR20000003 (ARM3) 8 dBi and 1 X RAR20008001 (PSM2) 25 dBi or less

Co-location Compliance for Integrated ARM3 IEEE 802.11b/g & ERM5 IEEE 802.11a/n & PSM2 IEEE 802.11a Public Service Radios -- HIGH GAIN ANTENNAS											
Safety Distance:		114 cm		(44.9 inches)							
Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
RAR20000003 (ARM3)			RAR20051001 (ERM5)			RAR20008001 (PSM2)					
35.5	0.022	1	49	0.486	1	49	0.486	1	0.994	1	Complies

Case 5A: Standard Gain BelAir100T with Dual ERM5 2X RAR20051001 (ERM5) 5.725 - 5.850 GHz with 15 dBi or less antennas and 1 X RAR20008001 (PSM2) (9 dBi)

Co-location Compliance for Integrated 802.11b/g & 802.11a Radios & 802.11a Public Service Radios									
Safety Distance:	27 cm		(10.6 inches)						
	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
	[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
	RAR20021001 (ERM1)			RAR20008001 (PSM2)					
	35	0.345	2	34	0.274	1	0.965	1	Complies

Case 5B: High Gain BelAir100T with Dual ERM5 2X RAR20051001 (ERM5) 5.725 - 5.850 GHz with 29 dBi or less antennas and 1 X RAR20008001 (PSM2) (25 dBi)

Co-location Compliance for Integrated 802.11b/g & 802.11a Radios & 802.11a Public Service Radios									
Safety Distance:	138 cm		(54.3 inches)						
	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
	[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
	RAR20051001 (ERM5)			RAR20008001 (PSM2)					
	49	0.332	2	49	0.332	1	0.996	1	Complies

Case 6: BelAir100S (Pedestal Solution) with 1 X RAR20000003 (ARM3) with 6 dBi Antenna and 1 X RAR20051001 (ERM5) 5.725 - 5.850 GHz with 15 dBi or less antennas

Co-location Compliance for Integrated ARM3 IEEE 802.11b/g & ERM5 IEEE 802.11a/n Radios									
Safety Distance:	20.3 cm		(8.0 inches)						
	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Worst-case Total EIRP	Max Power Density	Maximum Number of Radios	Total Density for co-located radios	Limit: General Population / Uncontrolled Exposure	Result
	[dBm]	[mW/cm ²]		[dBm]	[mW/cm ²]		[mW/cm ²]	[mW/cm ²]	
	RAR20000003 (ARM3)			RAR20051001 (ERM5)					
	33	0.385	1	35	0.611	1	0.996	1	Complies

Minimum Safety Distances								
Product	Standard Gain Antennas (up to 15 dBi)				High Gain Antennas (up to 29 dBi)			
RF boards: All valid combinations	ERM1	ERM5	ARM3	PSM2	ERM1	ERM5	ARM3	PSM2
BelAir100, BelAir100C, BelAir100T, BelAir100S, BelAir100M, BelAir100D	up to 15 dBi	up to 15 dBi	Any	9 dBi	up to 23 dBi	up to 29 dBi	Any	25 dBi
Distance	(10.6 inches)				(54.3 inches)			
BelAir200, BelAir200D	up to 15 dBi	up to 15 dBi	Any	9 dBi	up to 23 dBi	up to 29 dBi	Any	25 dBi
Distance	(13.0 inches)				(63.0 inches)			
RAR20000003 (ARM3); RAR20008001 (PSM2); RAR20021001 (ERM1); RAR20051001 (ERM5)								