

RPC LV Module Allocations- EASY 3000 14 Apr 05

crate cost =	950	A3009 cost=	3200	Alternate granularity. RB: 3 chambers / channel RE: 6 chambers / channel LBCs: one 3.3V channel, one 2.5V channel / crate
ac dc cost =	2500	A3016 cost=	2400	
		A3050 cost=	2000	
		A3025 cost=	2070	

		LV reqs.				DC-DC module parameters							Module & Crate Allocation										Module Utilization							
		# chan	V req. V	I req. A	P req. W	Model	# chan	/ chan		tot.	cost Euro	# / crate	modules			cost Euro	/tower	crates		cost Euro	/tower	AC/DC converters		cost Euro	# req.	Channel # avail	utilization	req. W	Power avail	utilization
								I max A	P max W				P max W	/ voltage	/ tower			/ station	/station			/station								
RE -4																														
RE -3	RPC analog	15	6.00	12.0	72.0	A3016	6	16	90	540	2400	5	2.5	3	6	14400	0.6	1.2	1140	1	2	5000	30	36	0.83	2160.0	3240.0	0.67		
	RPC digital	15	6.00	12.0	72.0	A3016	6	16	90	540	2400	5	2.5																	
	LBC 3.3V	12	4.30	13.0	55.9	A3016	6	16	90	540	2400	5	2.0	2	4	9600	0.4	0.8	760				24	24	1.00	1090.8	2160.0	0.51		
	LBC 2.5V	12	3.50	10.0	35.0	A3016	6	16	90	540	2400	5	2.0																	
RE -2	RPC analog	15	6.00	12.0	72.0	A3016	6	16	90	540	2400	5	2.5	3	6	14400	0.6	1.2	1140	1	2	5000	30	36	0.83	2160.0	3240.0	0.67		
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	LBC 2.5V	12	3.50	10.0	35.0	A3016	6	16	90	540	2400	5	2.0																	
RE -1	RPC analog	18	6.00	12.0	72.0	A3016	6	16	90	540	2400	5	3.0	3	6	14400	0.6	1.2	1140	1	2	5000	36	36	1.00	2592.0	3240.0	0.80		
	RPC digital	18	6.00	12.0	72.0	A3016	6	16	90	540	2400	5	3.0																	
	LBC 3.3V	12	4.30	13.0	55.9	A3016	6	16	90	540	2400	5	2.0	3	6	14400	0.6	1.2	1140				36	36	1.00	1636.2	3240.0	0.51		
	LBC 2.5V	12	3.50	10.0	35.0	A3016	6	16	90	540	2400	5	2.0																	
	LBC 3.3V *	6	4.30	13.0	55.9	A3016	6	16	90	540	2400	5	1.0																	
	LBC 2.5V *	6	3.50	10.0	35.0	A3016	6	16	90	540	2400	5	1.0																	
RB -2	RPC analog	24	6.50	12.0	78.0	A3016	6	16	90	540	2400	5	4.0	4	8	19200	0.8	1.6	1520	1	2	5000	48	48	1.00	3744.0	4320.0	0.87		
	RPC digital	24	6.50	12.0	78.0	A3016	6	16	90	540	2400	5	4.0																	
	LBC 3.3V	24	4.30	13.0	55.9	A3016	6	16	90	540	2400	5	4.0	4	8	19200	0.8	1.6	1520				48	48	1.00	2181.6	4320.0	0.51		
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	LBC 2.5V	24	3.50	10.0	35.0	A3016	6	16	90	540	2400	5	4.0																	
RB 0	RPC analog	24	6.50	12.0	78.0	A3016	6	16	90	540	2400	5	4.0	4	8	19200	0.8	1.6	1520	1	2	5000	48	48	1.00	3744.0	4320.0	0.87		
	RPC digital	24	6.50	12.0	78.0	A3016	6	16	90	540	2400	5	4.0																	
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	LBC 2.5V	24	3.50	10.0	35.0	A3016	6	16	90	540	2400	5	4.0																	
RB +2	RPC analog	24	6.50	12.0	78.0	A3016	6	16	90	540	2400	5	4.0	4	8	19200	0.8	1.6	1520	1	2	5000	48	48	1.00	3744.0	4320.0	0.87		
	RPC digital	24	6.50	12.0	78.0	A3016	6	16	90	540	2400	5	4.0																	
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	LBC 2.5V	12	3.50	10.0	35.0	A3016	6	16	90	540	2400	5	2.0																	
RE +3	RPC analog	15	6.00	12.0	72.0	A3016	6	16	90	540	2400	5	2.5	3	6	14400	0.6	1.2	1140	1	2	5000	30	36	0.83	2160.0	3240.0	0.67		
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	LBC 2.5V	12	3.50	10.0	35.0	A3016	6	16	90	540	2400	5	2.0																	
RE +4																														
Total																345600			27360			55000			0.97			0.64		
RE only																153600			12160			30000			0.94			0.61		
RB only																192000			15200			25000			1.00			0.69		
LBC only																163200			12920						1.00			0.51		

RPC LV costs	427960	Eur
RE=	195760	"
RB=	232200	"