

# Level 2 YB+2 Near

U	DT & RPC TRIGGER RACK - X2J22	DP	
		[W]	
2	DT TR/RO TTC extra lenghts' box		
3	(D: 200mm) Power supply for rack		
4	(D: 720mm@3KW or 645mm@2KW) Rack cooling and monitor		
1	(D: 720mm) heat exchanger + 1U distr. of cables for RPC LB on front (D: 420 mm)	Sect.	
6	RPC LinkBoard	11	160
3	(D: 475mm) Alignment: Endcap + Link		10
1	(D: ?? mm) Alignment (only YB+-1) - Benzze		
1	Distributor of cables 1U, if needed		
9	(D: 500mm) DT TR/RO Sec. Col.	Sect. 1 2 3 4 5 6	500
2	Distributor of cables 2U		
1	(D: 720 mm) heat exchanger in the shadow, if needed (D: ?) DT TR/RO Sec Col. - oc		
9	(D: 500mm) DT TR/RO Sec. Col.	Sect. 7 8 9 10 11 12	500
2	(D: 720 mm) heat exchanger in the shadow, if needed (D: ?) RPC TTC oc		
6	(D: 420 mm) RPC LinkBoard	Sect. 10	160
1	(D: 720mm) heat exchanger + 1U distr. of cables for RPC LB on front		
2	Deflector		
2	DT TR/RO TTC extra lenghts' box		

U	Lowest LV RACK - X2J21	P input [W]	P load [W]	P Dis. [W]
2	(D: ? mm) DT Slow Ctrl fibres PP			
4	(D: 720mm@3KW or 645mm@2KW) Rack ctrl <i>the POWER SUPPLY is to be installed in the back of the raised floor</i>			
1	(D: 720 mm) heat exchanger			
6	(D: 500 mm) RPC LV crate	MODULE 4-A3009 4-A3009 4-A3009 2-A3801 - not used -	Layer all all all 1,2,3,10,11,12	Sect. 10 11 12
	Distributor of cables 2U			
3	(D: 500 mm) (not used) AC/DC 2 [KW]		1920	220
6	(D: 500 mm) DT LV crate	MODULE 4-A3050 DT-DIG3V3 4-A3050 DT-DIG3V3 4-A3009 DT-DIG5V, DT-ANE 4-A3009F ALIGNMENT 4-A3009F ALIGNMENT	Layer 1, 2 3, 4 all ENDCAP LINK	Sect. 11 11 11
	Distributor of cables 2U <i>heat exchanger in the shadow, if needed</i>			
3	free U			
6	(D: 500 mm) DT LV crate	MODULE 4-A3050 DT-DIG3V3 4-A3050 DT-DIG3V3 4-A3009 DT-DIG5V, DT-ANE 4-A3100 SECT. COL. crate 4-A3100 SECT. COL. crate	Layer 1, 2 3, 4 all crate crate	Sect. 12 12 12
	Distributor of cables 2U <i>heat exchanger in the shadow, if needed</i>			
3	(D: 500 mm) AC/DC [2 kW] (s12 1/2) AC/DC [2k W] (s12 1/2)		1040	120
6	(D: 500 mm) DT LV crate	MODULE 4-A3050 DT-DIG3V3 4-A3050 DT-DIG3V3 4-A3050 DT-DIG3V3 4-A3009 DT-DIG5V 4-A3009 DT-ANSV, DT-ANZ	Layer 1, 2 3, 4 4,11 all all	Sect. 10 10 10 10 10
	Distributor of cables 2U			
3	(D: 500 mm) AC/DC [2 kW] (s11) AC/DC [2k W] (s11)		1400	160
1	(D: 720 mm) heat exchanger		1120	130
2	(D: 720 mm) Deflector			
2	(D: ? mm) DT Slow Ctrl fibres PP			

Legenda:

- Cabled.....
- Crate+cables partial.....
- Crate+cables full.....
- Crate+cables part. tested.....
- Crate+cables fully tested.....

# Level 2 YB+2 Far

X2A22

U	Lowest LV RACK -) X2A21			P input [W]	P load [W]	P Diss. [W]	
2	(D: ? mm)	DT Slow Ctrl fibres PP					
4	(D: 720mm@3KW or 645mm@2KW)	Rack ctrl					
1	(D: 720 mm)	heat exchanger					
6	(D: 500 mm)	MODULE	Layer	Sect.	640	480	160
		4-A3009	all	10	640	480	160
		4-A3009	all	11	640	480	160
		4-A3009	all	12	640	480	160
		2-A3801	all	1,2,3,10,			
		- not used -		11,12			
2	Distributor of cables 2U						
3	(D: 500 mm) (not used)	AC/DC 2 [KW]			1920	220	
6	(D: 500 mm)	MODULE	Layer	Sect.	400	300	100
		4-A3050	DT-DIG3V3	1, 2	400	300	100
		4-A3050	DT-DIG3V3	3, 4	400	300	100
		4-A3009	DT-DIG5V, DT-AN	all	320	240	80
		4-A300F	ALIGNMENT	ENDCAP			
		4-A300F	ALIGNMENT	LINK			
2	(D: 720 mm)	Distributor of cables 2U <i>heat exchanger in the shadow, if needed</i>					
3 free U							
6	(D: 500 mm)	MODULE	Layer	Sect.	400	300	100
		4-A3050	DT-DIG3V3	1, 2	400	300	100
		4-A3050	DT-DIG3V3	3, 4	400	300	100
		4-A3009	DT-DIG5V, DT-AN	all	320	240	80
		4-A3100	SECT. COL	crate	480	360	120
		4-A3100	SECT. COL	crate	480	360	120
2	(D: 720 mm)	Distributor of cables 2U <i>heat exchanger in the shadow, if needed</i>					
3	(D: 500 mm)	AC/DC [2 kW] (S12 1/2)			1040	120	
		AC/DC [2k W] (S12 1/2)			1040	120	
6	(D: 500 mm)	MODULE	Layer	Sect.	400	300	100
		4-A3050	DT-DIG3V3	1, 2	400	300	100
		4-A3050	DT-DIG3V3	3, 4 <sub>s</sub>	200	150	50
		4-A3050	DT-DIG3V3	4 <sub>11</sub>	120	90	30
		4-A3009	DT-DIG5V	all	280	210	70
		4-A3009	DT-AN5V, DT-AN2	all			
2	Distributor of cables 2U						
3	(D: 500 mm)	AC/DC [2 kW] (S10)			1400	160	
		AC/DC [2k W] (S11)			1120	130	
1	(D: 720 mm)	heat exchanger					
2	(D: 720 mm)	Deflector					
2	(D: ? mm)	DT Slow Ctrl fibres PP					

# Level 2 YB+1 Near

U	DT & RPC TRIGGER RACK - X2J12	[W]
2	DT TR/RO TTC extra lengths's box	
3	(D: 200mm) Power supply for rack	
4	(D: 720mm@3KW or 645mm@2KW) Rack cooling and monitor	
1	(D: 720mm) heat exchanger + 1U distr. of cables for RPC LB on front	
6	(D: 420 mm) RPC LinkBoard	11 160
3	(D: 475mm) Alignment: Endcap + Link	10
1	(D: ?? mm) Alignment (only YB+-1) - Bencze	
1	Distributor of cables 1U, if needed	
9	(D: 500mm) DT TR/RO Sec. Col.	1 2 3 4 5 6 500
2	Distributor of cables 2U	
1	(D: 720 mm) heat exchanger in the shadow, if needed	
1	(D: ?) DT TR/RO Sec. Col. - oc	
9	(D: 500mm) DT TR/RO Sec. Col.	7 8 9 10 11 12 500
2	Distributor of cables 2U	
1	(D: 720 mm) heat exchanger in the shadow, if needed	
1	(D: ?) RPC TTC oc	
6	(D: 420 mm) RPC LinkBoard	10 160
1	(D: 720mm) heat exchanger + 1U distr. of cables for RPC LB on front	
2	Deflector	
2	DT TR/RO TTC extra lengths' box	

U	Lowest LV RACK - X2J11	P input [W]	P load [W]	P Diss. [W]
2	(D: ? mm) DT Slow Ctrl fibres PP			
4	(D: 720mm@3KW or 645mm@2KW) Rack ctrl			
1	(D: 720 mm) heat exchanger			
6	(D: 500 mm) RPC LV crate	640 640 640	480 480 480	160 160 160
2	Distributor of cables 2U			
3	(D: 500 mm) (not used) AC/DC 2 [KW]		1920	220
6	(D: 500 mm) DT LV crate	400 400 320	300 300 240	100 100 80
2	(D: 720 mm) heat exchanger in the shadow, if needed			
3 free U				
6	(D: 500 mm) DT LV crate	400 400 320	300 300 240	100 100 80
2	(D: 720 mm) heat exchanger in the shadow, if needed			
3	(D: 500 mm) AC/DC [2 kW] (S12 1/2)		1040	120
6	(D: 500 mm) DT LV crate	400 400 200	300 300 150	100 100 50
2	Distributor of cables 2U			
3	(D: 500 mm) AC/DC [2 kW] (S10)		1400	160
1	(D: 720 mm) heat exchanger		1120	130
2	(D: 720 mm) Deflector			
2	(D: ? mm) DT Slow Ctrl fibres PP			

# Level 2 YB+1 Far

X2A12

U	Lowest LV RACK · X2A11			P input [W]	P load [W]	P Diss. [W]
2	(D: ? mm) DT Slow Ctrl fibres PP					
4	(D: 720mm@3KW or 645mm@2KW) Rack ctrl <i>The POWER SUPPLY is to be installed in the back of the nearest row</i>					
1	(D: 720 mm) heat exchanger					
6	(D: 500 mm)	MODULE	Layer Sect.	640	480	160
		4-A3009	all 10			
		4-A3009	all 11	640	480	160
		4-A3009	all 12	640	480	160
		2-A3801	all 1,2,3,10,			
		- not used -	11,12			
2	Distributor of cables 2U					
3	(D: 500 mm) (not used)	AC/DC 2 [KW]		1920	220	
6	(D: 500 mm)	MODULE	Layer Sect.	400	300	100
		4-A3050 DT-DIG3V3	1, 2 11	400	300	100
		4-A3050 DT-DIG3V3	3, 4 11	320	240	80
		4-A3009DT-DIG5V, DT-AN	all 11			
		4-A3005F ALIGNMENT	ENDCAP			
		4-A3005F ALIGNMENT	LINK			
2	(D: 720 mm) heat exchanger in the shadow, if needed					
3 free U						
6	(D: 500 mm)	MODULE	Layer Sect.	400	300	100
		4-A3050 DT-DIG3V3	1, 2 12	400	300	100
		4-A3050 DT-DIG3V3	3, 4 12	320	240	80
		4-A3009DT-DIG5V, DT-AN	all 12	480	360	120
		4-A3100 SECT. COL	crate	480	360	120
		4-A3100 SECT. COL	crate			
2	(D: 720 mm) heat exchanger in the shadow, if needed					
3	(D: 500 mm)	AC/DC [2 kW] (S12 1/2)	AC/DC [2k W] (S12 1/2)	1040	120	
				1040	120	
6	(D: 500 mm)	MODULE	Layer Sect.	400	300	100
		4-A3050 DT-DIG3V3	1, 2 10	400	300	100
		4-A3050 DT-DIG3V3	3, 4 <sub>s</sub> 10	200	150	50
		4-A3050 DT-DIG3V3	4 <sub>11</sub> 10	120	90	30
		4-A3009 DT-DIG5V	all 10	280	210	70
		4-A3009DT-AN5V, DT-AN2	all 10			
2	Distributor of cables 2U					
3	(D: 500 mm)	AC/DC [2 kW] (S10)	AC/DC [2k W] (S11)	1400	160	
				1120	130	
1	(D: 720 mm) heat exchanger					
2	(D: 720 mm) Deflector					
2	(D: ? mm) DT Slow Ctrl fibres PP					

# Level 3 YB+2 Near

U	RACK - X3J22 - proposal			P	P	P
				input	load	Diss
				[W]	[W]	[W]
4	(D: 720mm@3KW or 645mm@2KW) Rack ctrl <i>The POWER SUPPLY is to be installed in the back - about 40 centim</i>					
1	(D: 720 mm) heat exchanger (D: ---) Sect.					
6	RPC LinkBoard					
6	<i>The back if these 6 U are reserved                      for the power supply of the rack</i> FRONT IS AVAILABE, i.e. for LV EASY CRATE !					
6	(D: ---) DT HV A881 (D: ---) Sect.					
4	DT HV Ppanel (D: ---) Sect.					The center of PP is at 31 U from bottom
6	DT HV A881 (D: ---) Sect.					
7	1 U free					
6	6 U					
6	(D: 500 mm) LV LB crate AC-DC conv. in common w/	MODULE 4-A3009 4-A3009 4-A3009 2-A3801 - not used -	Layer Sect. all 10 all 11 all 12 1,2,3,10, 11,12			
1	Distributor of cables on a 1U (if really needed!) (D: ---) Sect.					
6	RPC LinkBoard					
1	(D: 720 mm) heat exchanger					
2	(D: 720 mm) Deflector					

43 U used  
13 U free

0 0

## Legenda:

- Cabled.....
- Crate+cables partial.....
- Crate+cables full.....
- Crate+cables part. tested
- Crate+cables fully tested

# Level 3 YB+2 Far

U	RACK: X3A22	jsal	P	P	P
			input	load	Diss
			[W]	[W]	[W]
4	(D: 720mm@3KW or 645mm@2KW) Rack ctrl				
1	(D: 720 mm) heat exchanger				
6	RPC LinkBoard				
6	<i>The back if these 6 U are reserved for the power supply of the rack</i>				
6	<i>FRONT IS AVAILABE, i.e. for LV EASY CRATE!</i>				
6	DT HV A881				
4	DT HV Ppanel				
6	DT HV A881				
7	1 U free				
6	6 U				
6	(D: 500 mm) LV LB crate	MODULE	Layer	Sect.	
	AC-DC conv. in common wj	4-A3009	all	10	
		4-A3009	all	11	
		4-A3009	all	12	
		2-A3801	all	13, 14, 15, 16, 17	
		- not used -			
1	Distributor of cables on a 1U (if really needed!)				
6	RPC LinkBoard				
1	(D: 720 mm) heat exchanger				
2	(D: 720 mm) Deflector				

The center of PP is at 31 U from bottom



## Legenda:

- Cabled.....
- Crate+cables partial.....
- Crate+cables full.....
- Crate+cables part. tested
- Crate+cables fully tested

43 U used  
13 U free

0 0

# Level 3 YB+1 Near

U	RACK X3J12	jsal	P input [W]	P load [W]	P Diss [W]
4	(D: 720mm) Rack ctrl				
1	(D: 720mm) heat exchanger				
6	RPC LinkBoard				
6	<i>The back of these 6 U are reserved for the power supply of the rack</i> <i>FRONT IS AVAILABE, i.e. for LV EASY CRATE!</i>				
6	(D: ---) DT HV A881 *				
4	DT HV Ppanel				The center of PP is at 31 U from bottom
6	(D: ---) DT HV A881				
7	1 U free				
6	6 U				
6	(D: 500 mm) LV LB crate AC-DC conv. in common w/	MODULE 4-A3009 4-A3009 4-A3009 2-A3801 - not used -	Layer all all all all	Sect. 10 11 12 13, 14, 15, 16, 17	
1	(D: ---) Distributor of cables on a 1U (if really needed!)				
6	RPC LinkBoard				
1	(D: 720 mm) heat exchanger				
2	(D: 720 mm) Deflector				

\*sect 10 only, for MTCC

## Legenda:

- Cabled.....
- Crate+cables partial.....
- Crate+cables full.....
- Crate+cables part. tested
- Crate+cables fully tested

43 U used  
13 U free

0 0

# Level 3 YB+1 Far

U	RACK: X3A12	jsal	P	P	P
			input	load	Diss
			[W]	[W]	[W]
4	(D: 720mm@3KW or 645mm@2KW) Rack ctrl				
1	(D: 720 mm) heat exchanger				
6	RPC LinkBoard				
6	<i>The back if these 6 U are reserved for the power supply of the rack</i>				
	<i>FRONT IS AVAILABE, i.e. for LV EASY CRATE !</i>				
6	DT HV A881				
4	DT HV Ppanel				
6	DT HV A881				
7	1 U free				
6	6 U				
6	(D: 500 mm) LV LB crate	MODULE	Layer	Sect.	
	AC-DC conv. in common wj	4-A3009	all	10	
		4-A3009	all	11	
		4-A3009	all	12	
		2-A3801	all	13, 14, 15, 16, 17, 18	
		- not used -		19, 20	
1	Distributor of cables on a 1U (if really needed!)				
6	RPC LinkBoard				
1	(D: 720 mm) heat exchanger				
2	(D: 720 mm) Deflector				

The center of PP is at 31 U from bottom

43 U used  
13 U free

## Legenda:

- Cabled.....
- Crate+cables partial.....
- Crate+cables full.....
- Crate+cables part. tested
- Crate+cables fully tested