

Status of MiniCrate Production at Bologna, 041207

File: 041207MC_prod_Bologna_MD.xls Presented by Marco Dallavalle

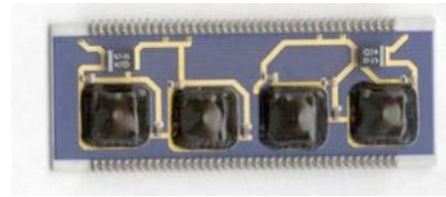
Week	0	1	2	3	4	5	6	6.1(M ship)	7	8	9	10
MB1 tot	2.5	2	1	0				6				
MB2 tot	2				1	0						
MB3 tot	1						0					
MB4 tot	0											
Task		dress mb1	full mb1	full mb1	full mb2	full mb2	full mb3		full mb2	full mb2	full mb3	full mb3
Etichette	6	5	4	3	2	1	0	14?				
Dissipatori TRB lunghi	29		24	19	13	7	0	300				
Dissipatori TRB corti	2		1	0				0				
Dist Lunghi con scanalatura	29		24	19	13	7	0	0				
Dist Lunghi senza scanalatura	29		24	19	13	7	0	0				
Dist Corti con scanalatura	2		1	0				0				
Dist Corti senza scanalatura	2		1	0				0				
TRB PHI 128	10		7	4	0	-4						
TRB PHI 32	2		1	0				0				
TRB capton	10		3	-4								
End Bus R	6		5	4	3	2	1					
End Bus L	6		5	4	3	2	1					
TRB THETA	13		11	9	7	5	3					
CCB	5		4	3	2	1	0	2				
cavi soglie	5		4	3	2	1	0					
cavi slow control MB1	2		1	0								
cavi slow control MB2	2				1	0						
cavi slow control MB3	1						0					
cavi slow control MB4	0											
cavi rpc-align Mb1	2		1	0								
cavi rpc-align Mb2	2				1	0						
cavi rpc-align mb3	0						-1					
cavi rpc-align mb4	0											
SB spacers corti	5		4	3	2	1	0	14				
SB spacers lunghi	5		4	3	2	1	0	14				
SB	5		4	3	2	1	0					
Link	4		3	2	1	0		2				
Cavo Link Mb1	2		1	0				6				
Cavo Link Mb2	0				-1			2				
Cavo Link Mb3	0						-1	4				
Cavo Link Mb4	0							2				
Cavi FE 4 steps - 1a	72				65	58						
Cavi FE 4 steps - 2a	12				11	10						
Cavi FE 4 steps - 1b	72				65	58						
Cavi FE 4 steps - 2b	12				11	10						
Cavi FE 5 steps - 1a	90	84	78	70			61					
Cavi FE 5 steps - 2a	23	22	21	20								

Cavi FE 5 steps – 1b	90	84	78	70			61	
Cavi FE 5 steps – 2b	23	22	21	20				
L3-2	10		8	6	4	2	0	24
L2-3	10		8	6	4	2	0	24
L1-4	10		8	6	4	2	0	24
R1-5	10		8	6	4	2	0	24
TR1.5-1	2		1	0				6
TR2.5-2	2		1	0				6
TR2-1	3				2	1	0	6
TR3-2	3				2	1	0	6
L4-1	2						0	8
L1-2	0							4
R1-3	0							4
R2-4	0							4
Fogli A4 – spessore 2mm	10.3		8.6	7	5	3	0.6	
Staffette link piccole	5		4	3	2	1	0	14
Staffette link grandi	5		4	3	2	1	0	14
Coperchi connettore TTC	6	5	4	3	2	1	0	14
Rondelle connettore TTC	5		4	3	2	1	0	
Profili di nylon	8		?					
Materiale per connessioni VETO	6	5	4	3	2	1	0	
S1-1 I.3.4m coppia	3	2	1	0				
S1-2 I.3.4m coppia	3	2	1	0				
S1-3 I.3.4m coppia	3	2	1	0				
S1-4 I.3.4m coppia	1							
S1-1 I.3.5m coppia	3				2	1	0	
S1-2 I.3.5m coppia	3				2	1	0	
S1-3 I.3.5m coppia	3				2	1	0	
S1-4 I.3.5m coppia	3				2	1	0	
S1-5 I.3.5m coppia	1						0	
S3-1 I.3.4m coppia	3	2	1	0				
S3-2 I.3.4m coppia	3	2	1	0				
S3-3 I.3.4m coppia	3	2	1	0				
S3-4 I.3.4m coppia	1							
S3-1 I.3.5m coppia	3				2	1	0	
S3-2 I.3.5m coppia	3				2	1	0	
S3-3 I.3.5m coppia	3				2	1	0	
S3-4 I.3.5m coppia	3				2	1	0	
S3-5 I.3.5m coppia	1						0	
buste 170 cm	12	8	4	0				
buste 80 cm	6	4	2	0				
buste 91 cm	12	8	4	0				
buste 200 cm	10				6	2	0	
buste 160 cm	4				2	0		
buste 268 cm	4						0	
buste 110 cm	2						0	

MiniCrates Status

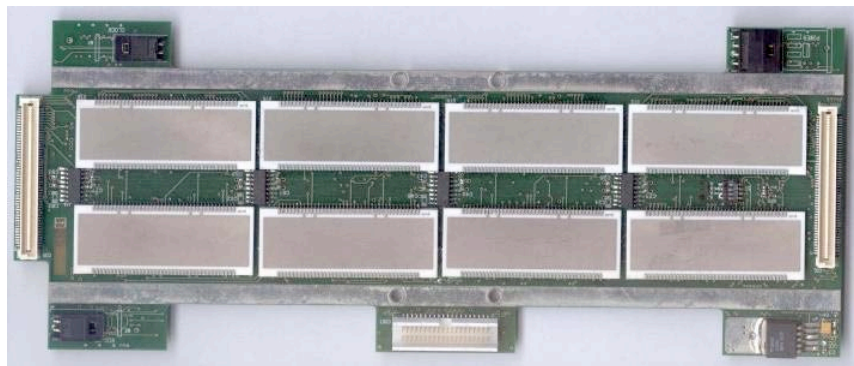
- Components Status (BTIM, TRB, CCB, SB)
- MC received
- MC assembled & tested
- MC delivered at CERN
- Schedule for YB2+ Completion

BTIM

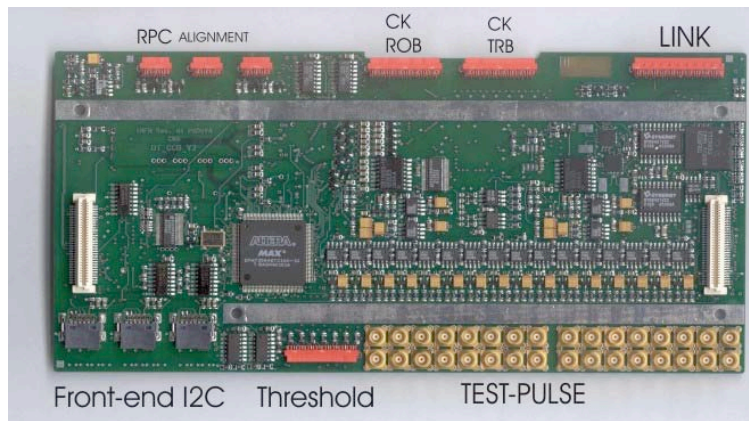


- 5210 modules done by Metallux (with epoxy glob top)
- 2430 modules delivered with silconic glob top.
- 1215 modules will be delivered every 20 days. Production ends in April 2005.

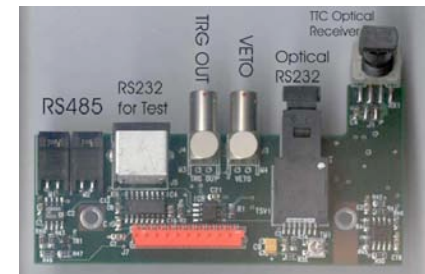
TRB



- Produced up to now:
 - 146 TRB _
 - 90 TRB _
 - 14 TRB _32
- Next production (foreseen before Xmas):
 - 230 TRB _
 - 80 TRB _
 - 26 TRB _32

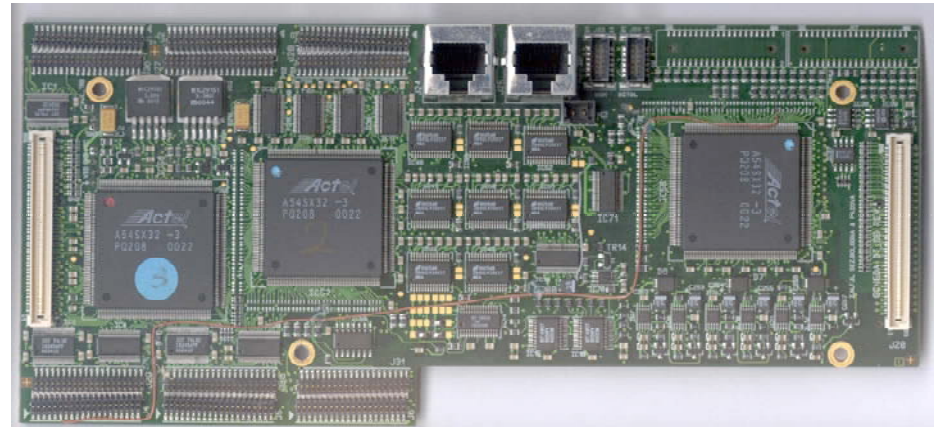


CCB
CCB link



- 40 prototypes available.
- Production will be completed within the year.

SB



- 45 boards available at LNL.
- 15 ready at Bologna + 80 now in burn-in.
- Production will be completed in few month.

MC received from CIEMAT

- 10 in June.
- 16 in September
- 13 in October.
- 14 in November.

Total:

$$24 \text{ MB1} + 10 \text{ MB2} + 11 \text{ MB3} + 8 \text{ MB4} = 53 \text{ MC}$$

MC assembled & tested

Completely assembled and tested:

- 8 at LNL (~ 1,5/week)
- 2 at Bologna (~ 1/week)

Partially assembled:

- 7 at LNL
- 6 at Bologna

MC at CERN

- 3 MC delivered for the October installation.
- 6 MC delivered for the Novembre installation.

9 MiniCrates installed

MINICRATE FOR WHEEL YB2+ COMPLETION construction schedule

MC type Label	priority	Box	Padova/ Bologna	29-nov	06-dic	13-dic	20-dic	27-dic	03-gen	10-gen	17-gen	24-gen	31-gen	07-feb	14-feb
MB4(4)-L /S0	1	3Pd				red		cyan	cyan						
MB4(4)-L /S0	1	3Pd				red		cyan	cyan						
MB4(10)-L /S+	1	Pd						cyan	cyan					red	
MB4(10)-L /S-	1	Pd						cyan	cyan					red	
MB3-L /S0	2	2Pd		red				cyan	cyan						
MB3-L /S0	2	2Pd		red				cyan	cyan						
MB3-L /S0	2	2Pd		red	red			cyan	cyan						
MB2-L /S+	3	1Bo		yellow				cyan	cyan						
MB2-L /S+	3	2Bo		yellow	yellow			cyan	cyan						
MB1-L /S-	4	1Bo				yellow		cyan	cyan						
MB1-L /S-	4	2Bo					yellow	cyan	cyan						
MB1-L /S-	4	2Bo					yellow	cyan	cyan	yellow					
MB1-L /S-	5	2Pd					red	cyan	cyan						
MB1-L /S-	5	2Pd					red	cyan	cyan	red					
MB1-L /S-	5	2Pd					red	cyan	cyan	red	red				
MB2-L /S+	6	2Pd						cyan	cyan		red				
MB2-L /S+	6	2Pd						cyan	cyan		red	red			
MB2-L /S+	6	3Pd						cyan	cyan		red	red			
MB2-L /S+	6	3Pd						cyan	cyan		red	red			
MB2-L /S+	6	4Bo						cyan	cyan	yellow					
MB2-L /S+	6	4Bo						cyan	cyan	yellow					
MB3-L /S0	7	2Bo						cyan	cyan				red		
MB3-L /S0	7	3Pd						cyan	cyan				red		
MB3-L /S0	7	4Bo						cyan	cyan				yellow		
MB3-L /S0	7	4Bo						cyan	cyan				yellow		
MB3-L /S0	7	4Bo						cyan	cyan				yellow		
MB3-L /S0	7	4Bo						cyan	cyan				yellow	yellow	
MB3-L /S0	7	4Bo						cyan	cyan				yellow	yellow	yellow

Legend:

red= MC built at LNL

yellow = MC built at Bologna

The date are referred to the time when the MC is tested at LNL or Bologna

The box number refers to the expedition from CIEMAT (the MB4(10) will be delivered in January)

Components availability

		installed	29-nov	06-dic	13-dic	20-dic	27-dic	03-gen	10-gen	17-gen	24-gen	31-gen	07-feb	14-feb	21-
MB1		5			1	2			3						
MB2		2	1	1						2	2	1			
MB3		2	2	1							1	3	1	1	
MB4		0			2								2		
TRB phi required		33	14	9	14	6	0	0	9	8	13	19	16	5	
TRB phi32 required		5	0	0	1	2	0	0	3	0	0	0	0	0	
TRB theta required		18	6	4	2	4	0	0	6	4	6	8	2	2	
SB required		9	3	2	3	2	0	0	3	2	3	4	3	1	
CCB required		9	3	2	3	2	0	0	3	2	3	4	3	1	
TRB phi available	376	343	329	320	306	300	300	300	291	283	270	251	235	230	
TRB phi32 available	40	35	35	35	34	32	32	32	29	29	29	29	29	29	
TRB theta available	170	152	146	142	140	136	136	136	130	126	120	112	110	108	
SB available	60	51	48	46	43	41	41	41	38	36	33	29	26	25	
CCB available	90	81	78	76	73	71	71	71	68	66	63	59	56	55	

The first series of row follows the installation schedule,

The second lists the components required,

The third, the components still available.

No lack of main components foreseen.

MiniCrates on the WEB

Information on MiniCrates can be found on the Padova CMS electronics web pages:

http://cms.pd.infn.it/electronics/cms_electronics_mu.html

and on the CIEMAT MiniCrates web page:

http://wwwae.ciemat.es/cms/DTE/mc_ing.htm

Under this link there is a complete tables of MiniCrates and their correspondences with physical position and chambers (with details on installed chambers and MC, relationship between MC labels and physical parameters...).

<http://cms.pd.infn.it/electronics/minicrates/MCtable.xls>

Comments and suggestions are welcome.