BOARD AND CHIP COUNT **VERSION 3.7** **8/27/98 19:15**

ALL PRICES ARE REASONABLE ESTIMATES

board name	hit finder	assoc. memory seqncer	hit buffer	assoc. memory board	merger	track fitter	spy control	XTRP fanout	Beam follower (PCI i/f)
board acronym	**HF**	**AMS**	**HB**	**AMB**	**MRG**	**TF**	**SC**	**XTF**	**BF**
# in SVT	36	12	12	24	20	12	8	1	1
# in test stand in B0 (phi slice)	3	1	1	2	1	1	1	1	1
# for HF/TF production/repair at UC	1				2	1	1		
# for AMS production/repair in Geneve		1		2	1		1		
# for boards production/repair in Italy		1	1	1	2		1		
total needed	40	15	14	29	26	14	12	2	2
spares (>= 15%) (to be kept in B0)	6	2	2	4	4	2	2	1	1
total to be built	**46**	**17**	**16**	**33**	**30**	**16**	**14**	**3**	**3**

IC part name	**# used in each board**									**#total**	spare %	**total + spare**	**total to buy**	unit cost Klit	+ VAT (20% I 6.2% CH)	**total cost Mlit**	buyer	min ord	vendor quote Klit	vendor	contac via	when	**note**	**PI**		**TS**	
SN74ABTE16245DL 16-bit tranceiver		6	6	6	6		6	6		678	10	746	720	7.65	9.18	6.6	PI	1	7.65	Vistel	offerta	4/98	ARRIVED				
SN74ABTE16246DL 11-bit OC tranceiver		1	1	1	1		1	1		113	10	124	130	10.6	12.72	1.7	PI	1	10.6	Vistel	offerta	4/98	ARRIVED	**8**	abte		
KM681002B-10 : 32-SOJ-400 128kx8 ram		11	19		15			8		965	20	1158	1200	9	10.8	13.0	GE	440	8.95	Vistel	offerta	4/98	BOUGHT				
KM681002B-10 : 32-TSOP-II 128kx8 ram			11							176	20	211	220	9.5	11.4	2.5	GE	50	9.5	Vistel	offerta	4/98	BOUGHT				
CY7C4245-10JC 4kx18 fifo		2	4					2	2	110	20	132	140	52	62.4	8.7	GE	10	52	Vistel	offerta	4/98	ARRIVED				
CY7C4245-10AC 4kx18 fifo					10					300	20	360	340	52	62.4	21.2	GE	10	52	Vistel	offerta	4/98	ARRIVED				
IDT 71B74-S8Y 8kx8 tag ram			8							128	50	192	189	21.5	25.8	4.9	PI	OBS	21.5	Avnet	offerta	4/98	ARRIVED	**5**	tagram		
CY7C992-7JC roboclock (-5 : +25%)		2	4	33						1187	40	1662	1600	24.5	29.4	**47.0**	PI	1	24.5	Ghelardi	offerta	3/98	1$=1750				
CY7C9920-5SC roboclock jr. (-7 ?)				2						66	40	92	90	17.8	21.36	**1.9**	PI	1	17.8	Vistel	offerta	4/98	1$=1800	**49**	roboclk		
DS90C031TM LVDS driver		7	7		15		1	73	1	917	10	1009	960	5.35	6.42	6.2	PI	1	5.35	Avnet	offerta	5/98	ARRIVED				
DS90C032TM LVDS receiver		7	13		28		1	18	6	1253	10	1378	1248	5.35	6.42	8.0	PI	1	5.35	Avnet	offerta	5/98	ARRIVED	**14**	lvds		
KEL 8830E-052-170LH right angle plug	2	2	3		6	3		13	1	444	20	533	550	9	10.8	**5.9**	TS	100	9.1	? amz	offerta	2/98	350pc				
KEL 8822E-052-171H crimp on receptacle	2	2	3		6	3		13	1	444	20	533	550	9	10.8	**5.9**	TS	100	8.85	? amz	offerta	2/98	350pc			**12**	kel
QL12x16-0PF100C FPGA for GLUE3		1								17	40	24	25	56.5	67.8	1.7	PI	1	56.5	Ghelardi	offerta	4/98	ARRIVED	**2**	gluAMS		
QL12x16-1PF100C FPGA for GLUE2/1				5						165	40	231	230	76.8	92.16	**21.2**	PI	1	76.8	Ghelardi	offerta	3/98	1$=1750				
QL16x24-1PF144C FPGA for GLUE0				16						528	40	739	740	114.5	137.4	**101.7**	PI	1	114.5	Ghelardi	offerta	3/98	1$=1750	**123**	gluAM		
XC73144-10PQ160C Xilinx 144 cells		6		1						135	40	189	190	76	80.7	15.3	GE	1	61CHF	Annie	offerta	4/98	ARRIVED				
XC73144-7PQ160C Xilinx 144 cells			5							80	40	112	120	99.5	119.4	14.3	PI	1	99.5	Avnet	offerta	4/98	ARRIVED				
XC7336-5PC44C Xilinx 36 cells		4	13							276	40	386	390	16.5	19.8	7.7	PI	1	16.5	Avnet	offerta	4/98	ARRIVED	**22**	xilinx		
EPM7xxxx-7 Altera PLD					1					30	20	36	30	300	360	**10.8**	TS	1	300	AMZ	offerta	4/98	few pc				
EPM7xxxx-12 Altera PLD					5					150	20	180	150	150	180	**27.0**	TS	1	150	AMZ	offerta	4/98	few pc			**38**	altera
Flex10K10 Altera ????							1	1	1	20	20	24	25	200	240	**6.0**	PI	1	?	my guess		4/98					
????? PECL driver/receiver							2			28	20	34	35	20	24	**0.8**	PI	1	?	my guess		4/98		7	SpyCtrl		
CY74FCT543CTSOC 8-bit trans.			4							64	20	77	80	2	2.4	**0.2**	PI	?	?	my guess		8/98					
AMP 177983-2 female (receptacle) conn for Amplug				16						528	40	739	740	2.5	3	**2.2**	PI	800	2.5	Alta	offerta	5/97	800pc				
AMP 177984-2 male (plug) conn for Amplug				16						528	40	739	740	2.5	3	**2.2**	PI	800	2.5	Alta	offerta	5/97	800pc	**4**	amplug		
CY27H512-30WC 64Kx8 fast EPROM			1	1	1		1	1		96	20	115	120	11.6	12.3	**1.5**	PI	30	11.6	Vistel	offerta	4/98	1$=1800	1	prom		
AMchip2				128						4224	40	5914	6000	42	50.4	**302.4**	PI	?		IMEC	offerta	4/98		**302**	amchip		
total component cost																**648.676**						bought already		**51**			
cost per board per unit (Mlit)	**0.04**	**1.13**	**2.04**	**10.38**	**2.53**	**0.06**	**0.38**	**1.4**	**0.43**													AMChip2 related		**479**			
cost per all boards (Mlit)	1.84	19.21	32.64	342.54	75.9	0.96	5.32	4.2	1.29	**TOTAL EACH INSTITUTION (Mlit) :**												Common stuff		**24**			
pcb fabrication (each)		2	2	3	2		2	2	2		**PI**		**TS**		**GE**							SpCtr parts		**0**			
pcb fabrication (all boards)		34	32	99	60		28	6	6	**comp**	**PI**	**538.243**	**TS**	**49.68**	**GE**	**60.753**											
board prodctn incl small parts (each)		1	1	2	0.5		0.5			**NRE**		**79**		**10**		**8**											
board test (each)		0	4.5	3	2		1			**boards**		**356**		**120**		**34**						parts 1998		**326**		**50**	
NRE: lay, rout,masks, pcb prototype		8	42	2	10		25	10		**tot**		**435**		**130**		**42**						NRE 1998		**79**		**10**	
board production (all boards)		25	130	167	85		46	10	0													parts 1999		**176**			
total all boards cost	2	78	195	609	221	1	79	20	7													prod 1999		**356**		**120**	
Eclipse guess: 12MLit/board for all but AM chips				396																		TOTAL		**938**		**180**	
		Adding AM chips		609																							

Prepared by Stefano Belforte 8/27/98