DUMMY TAIL PCBS 1 of 2 REV3.1 Tony smith 17/04/05

JM A,B,C,D ARE 20 PIN HEADERS WHICH ALLOW THE 5 CONTROL LINES ARRIVING ON J4 TO BE CONNECTED ACROSS TO J11 WHEN USING THE NIKHEF HYBRID
THE BOARD HAS CUTTABLE LINKS BETWEEN JMA AND JMB TO PROVIDE A DEFAULT FOR THE LIVERPOOL HYBRID. FOR THE NIKHEF HYBRID A 20 WAY RIBBON CABLE IS REQUIRED BETWEEN JMC AND JMB.
EVEN NUMBERED PINS ON THESE CONNECTORS ARE GROUNDED

JM A,B,C,D ARE 20 PIN HEADERS WHICH ALLOW THE 5 CONTROL LINES ARRIVING

LONG TAIL A (SHORTEST IN EXPERIMENT with Lpool Hybrid)

AMP 177983-4 receptacle

J1

JMA3 JMB3 JMA1 JMB1 JMA7 JMB7 JMA5 JMB5

USE MALE PART IF NOT USING FEEDTHROUGHS

50 WAY CANNON FEMALE NUMBERED AS MALE PART

J11

GND	GND	17	50	50	GND
VCC0	VCC0	33	49	49	VCC0
S22_p	sense0+	16	32	32	sense0+
S22_n	sense0-	48	40	40	sense0-
S21_p	SDA	15	31	31	SDA
S21_n	SDARET	47	39	39	SDARET
S20_p	ANA1-3	14	30	30	ANA1-3
S20_n	ANA1-3N	46	38	38	ANA1-3N
S19_p	ANA1-2	13	29	29	ANA1-2
S19_n	ANA1-2N	45	37	37	ANA1-2N
S18_p	ANA1-1	12	28	28	ANA1-1
S18_n	ANA1-1N	44	36	36	ANA1-1N
S17_p	ANA1-0	11	27	27	ANA1-0
S17_n	ANA1-0N	43	35	35	ANA1-0N
S16_p	ANA0-3	10	26	26	ANA0-3
S16_n	ANA0-3N	42	34	34	ANA0-3N
S15_p	ANA0-2	9	25	25	ANA0-2
S15_n	ANA0-2N	41	33	33	ANA0-2N
S14_p	ANA0-1	8	24	24	ANA0-1
S14_n	ANA0-1N	40	32	32	ANA0-1N
S13_p	ANA0-0	7	23	23	ANA0-0
S13_n	ANA0-0N	39	31	31	ANA0-0N
S12_p	COMPCLK	6	22	22	COMPCLK
S12_n	COMPCLKN	38	30	30	COMPCLKN
GND	GND	5	21	21	GND
VCC0	VCC0	37	29	29	VCC0
S11_p	SCL	4	20	20	SCL
S11_n	SCL_RET	36	28	28	SCL_RET
S10_p	ANA3-3	3	19	19	ANA3-3
S10_n	ANA3-3N	35	27	27	ANA3-3N
S9_p	ANA3-2	2	18	18	ANA3-2
S9_n	ANA3-2N	34	26	26	ANA3-2N
S8_p	ANA3-1	1	17	17	ANA3-1
S8_n	ANA3-1N	33	25	25	ANA3-1N
S7_p	ANA3-0				ANA3-0
S7_n	ANA3-0N				ANA3-0N
S6_p	ANA2-3				ANA2-3
S6_n	ANA2-3N				ANA2-3N
S5_p	ANA2-2				ANA2-2
S5_n	ANA2-2N				ANA2-2N
S4_p	ANA2-1				ANA2-1
S4_n	ANA2-1N				ANA2-1N
S3_p	ANA2-0				ANA2-0
S3_n	ANA2-0N				ANA2-0N
S2_p	CLOCK				CLOCK
S2_n	CLOCKN				CLOCKN
S1_p	TRIGGER				TRIGGER
S1_n	TRIGGERN				TRIGGERN
GND	GND				GND
VCC0	VCC0				VCC0

FT11 FEEDTHROUGH

K11 50 WAY CANNON FEMALE

LIVERPOOL HYBRID

JMA13 JMB13 JMA15 JMB15 JMA17 JMB17 JMA19 JMB19 JMA9 JMB9 JMA11 JMB11

LONG TAIL B

AMP 177983-4 receptacle

J2

USE MALE PART IF NOT USING FEEDTHROUGHS

50 WAY CANNON FEMALE NUMBERED AS MALE PART

J12

GND	GND	17	50	50	GND
VCC1	VCC1	33	49	49	VCC1
S22_p	NTCB	16	32	32	NTCB
S22_n	NTCA	48	40	40	NTCA
S21_p	NTCA2	15	31	31	NTCA2
S21_n	NTCB2	47	39	39	NTCB2
S20_p	ANA5-3	14	30	30	ANA5-3
S20_n	ANA5-3N	46	38	38	ANA5-3N
S19_p	ANA5-2	13	29	29	ANA5-2
S19_n	ANA5-2N	45	37	37	ANA5-2N
S18_p	ANA5-1	12	28	28	ANA5-1
S18_n	ANA5-1N	44	36	36	ANA5-1N
S17_p	ANA5-0	11	27	27	ANA5-0
S17_n	ANA5-0N	43	35	35	ANA5-0N
S16_p	ANA4-3	10	26	26	ANA4-3
S16_n	ANA4-3N	42	34	34	ANA4-3N
S15_p	ANA4-2	9	25	25	ANA4-2
S15_n	ANA4-2N	41	33	33	ANA4-2N
S14_p	ANA4-1	8	24	24	ANA4-1
S14_n	ANA4-1N	40	32	32	ANA4-1N
S13_p	ANA4-0	7	23	23	ANA4-0
S13_n	ANA4-0N	39	31	31	ANA4-0N
S12_p	RADMONA	6	22	22	RADMONA
S12_n	RADMONB	38	30	30	RADMONB
GND	GND	5	21	21	GND
VCC1	VCC1	37	29	29	VCC1
S11_p	TEMPV+	4	20	20	TEMPV+
S11_n	TEMPLEFT	36	28	28	TEMPLEFT
S10_p	ANA7-3	3	19	19	ANA7-3
S10_n	ANA7-3N	35	27	27	ANA7-3N
S9_p	ANA7-2	2	18	18	ANA7-2
S9_n	ANA7-2N	34	26	26	ANA7-2N
S8_p	ANA7-1	1	17	17	ANA7-1
S8_n	ANA7-1N	33	25	25	ANA7-1N
S7_p	ANA7-0				ANA7-0
S7_n	ANA7-0N				ANA7-0N
S6_p	ANA6-3				ANA6-3
S6_n	ANA6-3N				ANA6-3N
S5_p	ANA6-2				ANA6-2
S5_n	ANA6-2N				ANA6-2N
S4_p	ANA6-1				ANA6-1
S4_n	ANA6-1N				ANA6-1N
S3_p	ANA6-0				ANA6-0
S3_n	ANA6-0N				ANA6-0N
S2_p	TEMPRID				TEMPRID
S2_n	TEMPRIGHT				TEMPRIGHT
S1_p	sense1+				sense1+
S1_n	sense1-				sense1-
GND	GND				GND
VCC1	VCC1				VCC1

FT12 FEEDTHROUGH

K12 50 WAY CANNON FEMALE