

# KAGRA input/output channel list

JGW-T1201105

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Reference: [JGW-T1100689](#)

OMC, OMMT1, OMMT2, STM11, STM2, OFIについてはデザイン未定のため未掲載

Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	De whitening	RT model	RT PC name
PSL	FSS	RF PD	I-phase	K1:PSL-FSS_REFL_I	ADC1	1		1		k1psl	k1io
PSL	FSS	RF PD	Q-phase	K1:PSL-FSS_REFL_Q	ADC1	2		1		k1psl	k1io
PSL	PMC	RF PD	I-phase	K1:PSL-PMC_REFL_I	ADC1	3		1		k1psl	k1io
PSL	PMC	RF PD	Q-phase	K1:PSL-PMC_REFL_Q	ADC1	4		1		k1psl	k1io
PSL	FSS	DC PD	DC	K1:PSL-FSS_REFL_DC	ADC1	5		1		k1psl	k1io
PSL	FSS	DC PD	DC	K1:PSL-FSS_TR_DC	ADC1	6		1		k1psl	k1io
PSL	PMC	DC PD	DC	K1:PSL-PMC_REFL_DC	ADC1	7		1		k1psl	k1io
PSL	PMC	DC PD	DC	K1:PSL-PMC_TR_DC	ADC1	8		1		k1psl	k1io
PSL	ISS	DC PD	DC	K1:PSL-ISS_DC	ADC1	9		1		k1psl	k1io
PSL			spare		ADC1	10		1		k1psl	k1io
PSL			spare		ADC1	11		1		k1psl	k1io
PSL			spare		ADC1	12		1		k1psl	k1io
PSL			spare		ADC1	13				k1psl	k1io
PSL			spare		ADC1	14				k1psl	k1io
PSL			spare		ADC1	15				k1psl	k1io
PSL			spare		ADC1	16				k1psl	k1io
PSL	BENCH	DC QPD	injection beam pointing monitor, quadrature 1	K1:PSL-BENCH_OUT_QPD1_Q1	ADC1	17		1		k1psl	k1io
PSL	BENCH	DC QPD	injection beam pointing monitor, quadrature 2	K1:PSL-BENCH_OUT_QPD1_Q2	ADC1	18		1		k1psl	k1io
PSL	BENCH	DC QPD	injection beam pointing monitor, quadrature 3	K1:PSL-BENCH_OUT_QPD1_Q3	ADC1	19		1		k1psl	k1io
PSL	BENCH	DC QPD	injection beam pointing monitor, quadrature 4	K1:PSL-BENCH_OUT_QPD1_Q4	ADC1	20		1		k1psl	k1io
PSL	BENCH	DC QPD	injection beam position monitor, quadrature 1	K1:PSL-BENCH_OUT_QPD2_Q1	ADC1	21		1		k1psl	k1io
PSL	BENCH	DC QPD	injection beam position monitor, quadrature 2	K1:PSL-BENCH_OUT_QPD2_Q2	ADC1	22		1		k1psl	k1io
PSL	BENCH	DC QPD	injection beam position monitor, quadrature 3	K1:PSL-BENCH_OUT_QPD2_Q3	ADC1	23		1		k1psl	k1io
PSL	BENCH	DC QPD	injection beam position monitor, quadrature 4	K1:PSL-BENCH_OUT_QPD2_Q4	ADC1	24		1		k1psl	k1io
PSL			spare		ADC1	25				k1psl	k1io
PSL			spare		ADC1	26				k1psl	k1io
PSL			spare		ADC1	27				k1psl	k1io
PSL			spare		ADC1	28				k1psl	k1io
PSL			spare		ADC1	29				k1psl	k1io
PSL			spare		ADC1	30				k1psl	k1io
PSL			spare		ADC1	31				k1psl	k1io
PSL			reserved for 1PPS		ADC1	32				k1psl	k1io
IOO	MCR	RF QPD	Gouy phase 1 Quadrature 1 I-phase	K1:IOO-MCR_QPD_G1_Q1_I	ADC2	1		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 1 Quadrature 1 Q-phase	K1:IOO-MCR_QPD_G1_Q1_Q	ADC2	2		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 1 Quadrature 2 I-phase	K1:IOO-MCR_QPD_G1_Q2_I	ADC2	3		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 1 Quadrature 2 Q-phase	K1:IOO-MCR_QPD_G1_Q2_Q	ADC2	4		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 1 Quadrature 3 I-phase	K1:IOO-MCR_QPD_G1_Q3_I	ADC2	5		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 1 Quadrature 3 Q-phase	K1:IOO-MCR_QPD_G1_Q3_Q	ADC2	6		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 1 Quadrature 4 I-phase	K1:IOO-MCR_QPD_G1_Q4_I	ADC2	7		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 1 Quadrature 4 Q-phase	K1:IOO-MCR_QPD_G1_Q4_Q	ADC2	8		1		k1io	k1io
IOO	MCR	DC QPD	Gouy phase 1 Quadrature 1 DC	K1:IOO-MCR_QPD_G1_Q1_DC	ADC2	9				k1io	k1io
IOO	MCR	DC QPD	Gouy phase 1 Quadrature 2 DC	K1:IOO-MCR_QPD_G1_Q2_DC	ADC2	10				k1io	k1io
IOO	MCR	DC QPD	Gouy phase 1 Quadrature 3 DC	K1:IOO-MCR_QPD_G1_Q3_DC	ADC2	11				k1io	k1io
IOO	MCR	DC QPD	Gouy phase 1 Quadrature 4 DC	K1:IOO-MCR_QPD_G1_Q4_DC	ADC2	12				k1io	k1io
IOO			spare		ADC2	13				k1io	k1io
IOO			spare		ADC2	14				k1io	k1io
IOO			spare		ADC2	15				k1io	k1io
IOO			spare		ADC2	16				k1io	k1io
IOO	MCR	RF QPD	Gouy phase 2 Quadrature 1 I-phase	K1:IOO-MCR_QPD_G2_Q1_I	ADC2	17		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 2 Quadrature 1 Q-phase	K1:IOO-MCR_QPD_G2_Q1_Q	ADC2	18		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 2 Quadrature 2 I-phase	K1:IOO-MCR_QPD_G2_Q2_I	ADC2	19		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 2 Quadrature 2 Q-phase	K1:IOO-MCR_QPD_G2_Q2_Q	ADC2	20		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 2 Quadrature 3 I-phase	K1:IOO-MCR_QPD_G2_Q3_I	ADC2	21		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 2 Quadrature 3 Q-phase	K1:IOO-MCR_QPD_G2_Q3_Q	ADC2	22		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 2 Quadrature 4 I-phase	K1:IOO-MCR_QPD_G2_Q4_I	ADC2	23		1		k1io	k1io
IOO	MCR	RF QPD	Gouy phase 2 Quadrature 4 Q-phase	K1:IOO-MCR_QPD_G2_Q4_Q	ADC2	24		1		k1io	k1io
IOO	MCR	DC QPD	Gouy phase 2 Quadrature 1 DC	K1:IOO-MCR_QPD_G2_Q1_DC	ADC2	25				k1io	k1io
IOO	MCR	DC QPD	Gouy phase 2 Quadrature 2 DC	K1:IOO-MCR_QPD_G2_Q2_DC	ADC2	26				k1io	k1io
IOO	MCR	DC QPD	Gouy phase 2 Quadrature 3 DC	K1:IOO-MCR_QPD_G2_Q3_DC	ADC2	27				k1io	k1io
IOO	MCR	DC QPD	Gouy phase 2 Quadrature 4 DC	K1:IOO-MCR_QPD_G2_Q4_DC	ADC2	28				k1io	k1io
IOO			spare		ADC2	29				k1io	k1io
IOO			spare		ADC2	30				k1io	k1io

IOO			spare		ADC2	31			k1io	k1io
IOO			spare		ADC2	32			k1io	k1io
IOO	MCT	DC QPD	High gain, Quadrature 1 DC	K1:IOO-MCT_QPD_HG_Q1	ADC3	1	1		k1io	k1io
IOO	MCT	DC QPD	High gain, Quadrature 2 DC	K1:IOO-MCT_QPD_HG_Q2	ADC3	2	1		k1io	k1io
IOO	MCT	DC QPD	High gain, Quadrature 3 DC	K1:IOO-MCT_QPD_HG_Q3	ADC3	3	1		k1io	k1io
IOO	MCT	DC QPD	High gain, Quadrature 4 DC	K1:IOO-MCT_QPD_HG_Q4	ADC3	4	1		k1io	k1io
IOO	MCT	DC QPD	Low gain, Quadrature 1 DC	K1:IOO-MCT_QPD_LG_Q1	ADC3	5	1		k1io	k1io
IOO	MCT	DC QPD	Low gain, Quadrature 2 DC	K1:IOO-MCT_QPD_LG_Q2	ADC3	6	1		k1io	k1io
IOO	MCT	DC QPD	Low gain, Quadrature 3 DC	K1:IOO-MCT_QPD_LG_Q3	ADC3	7	1		k1io	k1io
IOO	MCT	DC QPD	Low gain, Quadrature 4 DC	K1:IOO-MCT_QPD_LG_Q4	ADC3	8	1		k1io	k1io
IOO	MCT	DC PD	DC, High gain	K1:IOO-MCT_DC_HG	ADC3	9	1		k1io	k1io
IOO	MCT	DC PD	DC, Low gain	K1:IOO-MCT_DC_LG	ADC3	10	1		k1io	k1io
IOO			spare		ADC3	11	1		k1io	k1io
IOO			spare		ADC3	12	1		k1io	k1io
IOO			spare		ADC3	13			k1io	k1io
IOO			spare		ADC3	14			k1io	k1io
IOO			spare		ADC3	15			k1io	k1io
IOO			spare		ADC3	16			k1io	k1io
IOO			spare		ADC3	17			k1io	k1io
IOO			spare		ADC3	18			k1io	k1io
IOO			spare		ADC3	19			k1io	k1io
IOO			spare		ADC3	20			k1io	k1io
IOO			spare		ADC3	21			k1io	k1io
IOO			spare		ADC3	22			k1io	k1io
IOO			spare		ADC3	23			k1io	k1io
IOO			spare		ADC3	24			k1io	k1io
IOO			spare		ADC3	25			k1io	k1io
IOO			spare		ADC3	26			k1io	k1io
IOO			spare		ADC3	27			k1io	k1io
IOO			spare		ADC3	28			k1io	k1io
IOO			spare		ADC3	29			k1io	k1io
IOO			spare		ADC3	30			k1io	k1io
IOO			spare		ADC3	31			k1io	k1io
IOO			spare		ADC3	32			k1io	k1io

Whitening/dewhitening Total 0 48 0

Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	Dewhitening	RT model	RT PC name
VIS	MCI	TM	OSEM sensor, horizontal UL	K1:VIS-MCI_TM_UL_SENS	ADC1	1	1			k1mci	k1mc
VIS	MCI	TM	OSEM sensor, horizontal UR	K2:VIS-MCI_TM_UR_SENS	ADC1	2	1			k1mci	k1mc
VIS	MCI	TM	OSEM sensor, horizontal LR	K3:VIS-MCI_TM_LR_SENS	ADC1	3	1			k1mci	k1mc
VIS	MCI	TM	OSEM sensor, horizontal LL	K4:VIS-MCI_TM_LL_SENS	ADC1	4	1			k1mci	k1mc
VIS	MCI	TM	OSEM actuator, horizontal UL	K1:VIS-MCI_TM_UL_ACT	DAC1	1			1	k1mci	k1mc
VIS	MCI	TM	OSEM actuator, horizontal UR	K1:VIS-MCI_TM_UR_ACT	DAC1	2			1	k1mci	k1mc
VIS	MCI	TM	OSEM actuator, horizontal LR	K1:VIS-MCI_TM_LR_ACT	DAC1	3			1	k1mci	k1mc
VIS	MCI	TM	OSEM actuator, horizontal LL	K1:VIS-MCI_TM_LL_ACT	DAC1	4			1	k1mci	k1mc
VIS	MCI	OL	Optical lever	K1:VIS-MCI_OL_Q1	ADC1	5	1			k1mci	k1mc
VIS	MCI	OL	Optical lever	K1:VIS-MCI_OL_Q2	ADC1	6	1			k1mci	k1mc
VIS	MCI	OL	Optical lever	K1:VIS-MCI_OL_Q3	ADC1	7	1			k1mci	k1mc
VIS	MCI	OL	Optical lever	K1:VIS-MCI_OL_Q4	ADC1	8	1			k1mci	k1mc
VIS	MCI	SS	Wire position shadow sensor X	K1:VIS-MCI_WIRE_X	ADC1	9				k1mci	k1mc
VIS	MCI	SS	Wire position shadow sensor Y	K1:VIS-MCI_WIRE_Y	ADC1	10				k1mci	k1mc
VIS	MCI		spare		ADC1	11				k1mci	k1mc
VIS	MCI		spare		ADC1	12				k1mci	k1mc
VIS	MCI		spare		ADC1	13				k1mci	k1mc
VIS	MCI		spare		ADC1	14				k1mci	k1mc
VIS	MCI		spare		ADC1	15				k1mci	k1mc
VIS	MCI		spare		ADC1	16				k1mci	k1mc
VIS	MCO	TM	OSEM sensor, horizontal top	K1:VIS-MCO_TM.T_SENS	ADC1	17	1			k1mco	k1mc
VIS	MCO	TM	OSEM sensor, horizontal bottom	K2:VIS-MCO_TM.B_SENS	ADC1	18	1			k1mco	k1mc
VIS	MCO	TM	OSEM sensor, horizontal right	K3:VIS-MCO_TM.R_SENS	ADC1	19	1			k1mco	k1mc
VIS	MCO	TM	OSEM sensor, horizontal left	K4:VIS-MCO_TM.L_SENS	ADC1	20	1			k1mco	k1mc
VIS	MCO	TM	OSEM actuator, horizontal top	K1:VIS-MCO_TM.T_ACT	DAC1	5			1	k1mco	k1mc
VIS	MCO	TM	OSEM actuator, horizontal bottom	K1:VIS-MCO_TM.B_ACT	DAC1	6			1	k1mco	k1mc
VIS	MCO	TM	OSEM actuator, horizontal right	K1:VIS-MCO_TM.R_ACT	DAC1	7			1	k1mco	k1mc
VIS	MCO	TM	OSEM actuator, horizontal left	K1:VIS-MCO_TM.L_ACT	DAC1	8			1	k1mco	k1mc
VIS	MCO	OL	Optical lever	K1:VIS-MCO_OL_Q1	ADC1	21	1			k1mco	k1mc
VIS	MCO	OL	Optical lever	K1:VIS-MCO_OL_Q2	ADC1	22	1			k1mco	k1mc
VIS	MCO	OL	Optical lever	K1:VIS-MCO_OL_Q3	ADC1	23	1			k1mco	k1mc
VIS	MCO	OL	Optical lever	K1:VIS-MCO_OL_Q4	ADC1	24	1			k1mco	k1mc

VIS	MCO	SS	Wire position shadow sensor X	K1:VIS-MCO_WIRE_X	ADC1	25				k1mco	k1mc
VIS	MCO	SS	Wire position shadow sensor Y	K1:VIS-MCO_WIRE_Y	ADC1	26				k1mco	k1mc
VIS	MCO		spare		ADC1	27				k1mco	k1mc
VIS	MCO		spare		ADC1	28				k1mco	k1mc
VIS	MCO		spare		ADC1	29				k1mco	k1mc
VIS	MCO		spare		ADC1	30				k1mco	k1mc
VIS	MCO		spare		ADC1	31				k1mco	k1mc
VIS	MCO		reserved for 1PPS		ADC1	32				k1mco	k1mc
VIS	MCE	TM	OSEM sensor, horizontal UL	K1:VIS-MCE_TM_UL_SENS	ADC2	1	1			k1mce	k1mc
VIS	MCE	TM	OSEM sensor, horizontal UR	K2:VIS-MCE_TM_UR_SENS	ADC2	2	1			k1mce	k1mc
VIS	MCE	TM	OSEM sensor, horizontal LR	K3:VIS-MCE_TM_LR_SENS	ADC2	3	1			k1mce	k1mc
VIS	MCE	TM	OSEM sensor, horizontal LL	K4:VIS-MCE_TM_LL_SENS	ADC2	4	1			k1mce	k1mc
VIS	MCE	TM	OSEM actuator, horizontal UL	K1:VIS-MCE_TM_UL_ACT	DAC1	9			1	k1mce	k1mc
VIS	MCE	TM	OSEM actuator, horizontal UR	K1:VIS-MCE_TM_UR_ACT	DAC1	10			1	k1mce	k1mc
VIS	MCE	TM	OSEM actuator, horizontal LR	K1:VIS-MCE_TM_LR_ACT	DAC1	11			1	k1mce	k1mc
VIS	MCE	TM	OSEM actuator, horizontal LL	K1:VIS-MCE_TM_LL_ACT	DAC1	12			1	k1mce	k1mc
VIS	MCE		spare		DAC1	13				k1mce	k1mc
VIS	MCE		spare		DAC1	14				k1mce	k1mc
VIS	MCE		spare		DAC1	15				k1mce	k1mc
VIS	MCE		spare		DAC1	16				k1mce	k1mc
VIS	MCE	OL	Optical lever	K1:VIS-MCE_OL_Q1	ADC2	5	1			k1mce	k1mc
VIS	MCE	OL	Optical lever	K1:VIS-MCE_OL_Q2	ADC2	6	1			k1mce	k1mc
VIS	MCE	OL	Optical lever	K1:VIS-MCE_OL_Q3	ADC2	7	1			k1mce	k1mc
VIS	MCE	OL	Optical lever	K1:VIS-MCE_OL_Q4	ADC2	8	1			k1mce	k1mc
VIS	MCE	SS	Wire position shadow sensor X	K1:VIS-MCE_WIRE_X	ADC2	9				k1mce	k1mc
VIS	MCE	SS	Wire position shadow sensor Y	K1:VIS-MCE_WIRE_Y	ADC2	10				k1mce	k1mc
VIS	MCE		spare		ADC2	11				k1mce	k1mc
VIS	MCE		spare		ADC2	12				k1mce	k1mc
VIS	MCE		spare		ADC2	13				k1mce	k1mc
VIS	MCE		spare		ADC2	14				k1mce	k1mc
VIS	MCE		spare		ADC2	15				k1mce	k1mc
VIS	MCE		spare		ADC2	16				k1mce	k1mc
VIS	MCE		spare		ADC2	17				k1mce	k1mc
VIS	MCE		spare		ADC2	18				k1mce	k1mc
VIS	MCE		spare		ADC2	19				k1mce	k1mc
VIS	MCE		spare		ADC2	20				k1mce	k1mc
VIS	MCE		spare		ADC2	21				k1mce	k1mc
VIS	MCE		spare		ADC2	22				k1mce	k1mc
VIS	MCE		spare		ADC2	23				k1mce	k1mc
VIS	MCE		spare		ADC2	24				k1mce	k1mc
VIS	MCE		spare		ADC2	25				k1mce	k1mc
VIS	MCE		spare		ADC2	26				k1mce	k1mc
VIS	MCE		spare		ADC2	27				k1mce	k1mc
VIS	MCE		spare		ADC2	28				k1mce	k1mc
VIS	MCE		spare		ADC2	29				k1mce	k1mc
VIS	MCE		spare		ADC2	30				k1mce	k1mc
VIS	MCE		spare		ADC2	31				k1mce	k1mc
VIS	MCE		spare		ADC2	32				k1mce	k1mc

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISO whitening	Dewhitening	RT model	RT PC name
VIS	MMT1	TM	OSEM sensor, horizontal UL	K1:VIS-MMT1_TM_UL_SENS	ADC1	1	1			k1mmc1	k1mmt
VIS	MMT1	TM	OSEM sensor, horizontal UR	K2:VIS-MMT1_TM_UR_SENS	ADC1	2	1			k1mmc1	k1mmt
VIS	MMT1	TM	OSEM sensor, horizontal LR	K3:VIS-MMT1_TM_LR_SENS	ADC1	3	1			k1mmc1	k1mmt
VIS	MMT1	TM	OSEM sensor, horizontal LL	K4:VIS-MMT1_TM_LL_SENS	ADC1	4	1			k1mmc1	k1mmt
VIS	MMT1	TM	OSEM actuator, horizontal UL	K1:VIS-MMT1_TM_UL_ACT	DAC1	1			1	k1mmc1	k1mmt
VIS	MMT1	TM	OSEM actuator, horizontal UR	K1:VIS-MMT1_TM_UR_ACT	DAC1	2			1	k1mmc1	k1mmt
VIS	MMT1	TM	OSEM actuator, horizontal LR	K1:VIS-MMT1_TM_LR_ACT	DAC1	3			1	k1mmc1	k1mmt
VIS	MMT1	TM	OSEM actuator, horizontal LL	K1:VIS-MMT1_TM_LL_ACT	DAC1	4			1	k1mmc1	k1mmt
VIS	MMT1		spare		DAC1	5				k1mmc1	k1mmt
VIS	MMT1		spare		DAC1	6				k1mmc1	k1mmt
VIS	MMT1		spare		DAC1	7				k1mmc1	k1mmt
VIS	MMT1		spare		DAC1	8				k1mmc1	k1mmt
VIS	MMT1	OL	Optical lever	K1:VIS-MMT1_OL_Q1	ADC1	5	1			k1mmc1	k1mmt
VIS	MMT1	OL	Optical lever	K1:VIS-MMT1_OL_Q2	ADC1	6	1			k1mmc1	k1mmt
VIS	MMT1	OL	Optical lever	K1:VIS-MMT1_OL_Q3	ADC1	7	1			k1mmc1	k1mmt
VIS	MMT1	OL	Optical lever	K1:VIS-MMT1_OL_Q4	ADC1	8	1			k1mmc1	k1mmt
VIS	MMT1	SS	Wire position shadow sensor X	K1:VIS-MMT1_WIRE_X	ADC1	9				k1mmc1	k1mmt
VIS	MMT1	SS	Wire position shadow sensor Y	K1:VIS-MMT1_WIRE_Y	ADC1	10				k1mmc1	k1mmt

VIS	MMT1		spare		ADC1	11				k1mmc1	k1mmt
VIS	MMT1		spare		ADC1	12				k1mmc1	k1mmt
VIS	MMT1		spare		ADC1	13				k1mmc1	k1mmt
VIS	MMT1		spare		ADC1	14				k1mmc1	k1mmt
VIS	MMT1		spare		ADC1	15				k1mmc1	k1mmt
VIS	MMT1		spare		ADC1	16				k1mmc1	k1mmt
VIS	MMT2	TM	OSEM sensor, horizontal top	K1:VIS-MMT2_TM_T_SENS	ADC1	17	1			k1mmc2	k1mmt
VIS	MMT2	TM	OSEM sensor, horizontal bottom	K2:VIS-MMT2_TM_B_SENS	ADC1	18	1			k1mmc2	k1mmt
VIS	MMT2	TM	OSEM sensor, horizontal right	K3:VIS-MMT2_TM_R_SENS	ADC1	19	1			k1mmc2	k1mmt
VIS	MMT2	TM	OSEM sensor, horizontal left	K4:VIS-MMT2_TM_L_SENS	ADC1	20	1			k1mmc2	k1mmt
VIS	MMT2	TM	OSEM actuator, horizontal top	K1:VIS-MMT2_TM_T_ACT	DAC1	9			1	k1mmc2	k1mmt
VIS	MMT2	TM	OSEM actuator, horizontal bottom	K1:VIS-MMT2_TM_B_ACT	DAC1	10			1	k1mmc2	k1mmt
VIS	MMT2	TM	OSEM actuator, horizontal right	K1:VIS-MMT2_TM_R_ACT	DAC1	11			1	k1mmc2	k1mmt
VIS	MMT2	TM	OSEM actuator, horizontal left	K1:VIS-MMT2_TM_L_ACT	DAC1	12			1	k1mmc2	k1mmt
VIS	MMT2		spare		DAC1	13				k1mmc2	k1mmt
VIS	MMT2		spare		DAC1	14				k1mmc2	k1mmt
VIS	MMT2		spare		DAC1	15				k1mmc2	k1mmt
VIS	MMT2		spare		DAC1	16				k1mmc2	k1mmt
VIS	MMT2	OL	Optical lever	K1:VIS-MMT2_OL_Q1	ADC1	21	1			k1mmc2	k1mmt
VIS	MMT2	OL	Optical lever	K1:VIS-MMT2_OL_Q2	ADC1	22	1			k1mmc2	k1mmt
VIS	MMT2	OL	Optical lever	K1:VIS-MMT2_OL_Q3	ADC1	23	1			k1mmc2	k1mmt
VIS	MMT2	OL	Optical lever	K1:VIS-MMT2_OL_Q4	ADC1	24	1			k1mmc2	k1mmt
VIS	MMT2	SS	Wire position shadow sensor X	K1:VIS-MMT2_WIRE_X	ADC1	25				k1mmc2	k1mmt
VIS	MMT2	SS	Wire position shadow sensor Y	K1:VIS-MMT2_WIRE_Y	ADC1	26				k1mmc2	k1mmt
VIS	MMT2		spare		ADC1	27				k1mmc2	k1mmt
VIS	MMT2		spare		ADC1	28				k1mmc2	k1mmt
VIS	MMT2		spare		ADC1	29				k1mmc2	k1mmt
VIS	MMT2		spare		ADC1	30				k1mmc2	k1mmt
VIS	MMT2		spare		ADC1	31				k1mmc2	k1mmt
VIS	MMT2		reserved for 1PPS		ADC1	32				k1mmc2	k1mmt
IOO	IMMT1T	DC QPD	High gain, Quadrature 1 DC	K1:IOO-MMT1T_QPD_HG_Q1	ADC2	1		1		k1iommt	k1mmt
IOO	IMMT1T	DC QPD	High gain, Quadrature 2 DC	K1:IOO-MMT1T_QPD_HG_Q2	ADC2	2		1		k1iommt	k1mmt
IOO	IMMT1T	DC QPD	High gain, Quadrature 3 DC	K1:IOO-MMT1T_QPD_HG_Q3	ADC2	3		1		k1iommt	k1mmt
IOO	IMMT1T	DC QPD	High gain, Quadrature 4 DC	K1:IOO-MMT1T_QPD_HG_Q4	ADC2	4		1		k1iommt	k1mmt
IOO	IMMT1T	DC QPD	Low gain, Quadrature 1 DC	K1:IOO-MMT1T_QPD_LG_Q1	ADC2	5		1		k1iommt	k1mmt
IOO	IMMT1T	DC QPD	Low gain, Quadrature 2 DC	K1:IOO-MMT1T_QPD_LG_Q2	ADC2	6		1		k1iommt	k1mmt
IOO	IMMT1T	DC QPD	Low gain, Quadrature 3 DC	K1:IOO-MMT1T_QPD_LG_Q3	ADC2	7		1		k1iommt	k1mmt
IOO	IMMT1T	DC QPD	Low gain, Quadrature 4 DC	K1:IOO-MMT1T_QPD_LG_Q4	ADC2	8		1		k1iommt	k1mmt
IOO	IMMT1T	DC PD	DC, High gain	K1:IOO-MMT1T_DC_HG	ADC2	9		1		k1iommt	k1mmt
IOO	IMMT1T	DC PD	DC, Low gain	K1:IOO-MMT1T_DC_LG	ADC2	10		1		k1iommt	k1mmt
IOO			spare		ADC2	11		1		k1iommt	k1mmt
IOO			spare		ADC2	12		1		k1iommt	k1mmt
IOO			spare		ADC2	13				k1iommt	k1mmt
IOO			spare		ADC2	14				k1iommt	k1mmt
IOO			spare		ADC2	15				k1iommt	k1mmt
IOO			spare		ADC2	16				k1iommt	k1mmt
IOO	IMM2T	DC QPD	High gain, Quadrature 1 DC	K1:IOO-MMT2T_QPD_HG_Q1	ADC2	17		1		k1iommt	k1mmt
IOO	IMM2T	DC QPD	High gain, Quadrature 2 DC	K1:IOO-MMT2T_QPD_HG_Q2	ADC2	18		1		k1iommt	k1mmt
IOO	IMM2T	DC QPD	High gain, Quadrature 3 DC	K1:IOO-MMT2T_QPD_HG_Q3	ADC2	19		1		k1iommt	k1mmt
IOO	IMM2T	DC QPD	High gain, Quadrature 4 DC	K1:IOO-MMT2T_QPD_HG_Q4	ADC2	20		1		k1iommt	k1mmt
IOO	IMM2T	DC QPD	Low gain, Quadrature 1 DC	K1:IOO-MMT2T_QPD_LG_Q1	ADC2	21		1		k1iommt	k1mmt
IOO	IMM2T	DC QPD	Low gain, Quadrature 2 DC	K1:IOO-MMT2T_QPD_LG_Q2	ADC2	22		1		k1iommt	k1mmt
IOO	IMM2T	DC QPD	Low gain, Quadrature 3 DC	K1:IOO-MMT2T_QPD_LG_Q3	ADC2	23		1		k1iommt	k1mmt
IOO	IMM2T	DC QPD	Low gain, Quadrature 4 DC	K1:IOO-MMT2T_QPD_LG_Q4	ADC2	24		1		k1iommt	k1mmt
IOO	IMM2T	DC PD	DC, High gain	K1:IOO-MMT2T_DC_HG	ADC2	25		1		k1iommt	k1mmt
IOO	IMM2T	DC PD	DC, Low gain	K1:IOO-MMT2T_DC_LG	ADC2	26		1		k1iommt	k1mmt
IOO			spare		ADC2	27		1		k1iommt	k1mmt
IOO			spare		ADC2	28				k1iommt	k1mmt
IOO	IMM2T	RF PD	f1 I-phase	K1:IOO-MMT2T_F1_I	ADC2	29		1		k1iommt	k1mmt
IOO	IMM2T	RF PD	f1 Q-phase	K1:IOO-MMT2T_F1_Q	ADC2	30		1		k1iommt	k1mmt
IOO	IMM2T	RF PD	f2 I-phase	K1:IOO-MMT2T_F2_I	ADC2	31		1		k1iommt	k1mmt
IOO	IMM2T	RF PD	f2 Q-phase	K1:IOO-MMT2T_F2_Q	ADC2	32		1		k1iommt	k1mmt

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	Dewhitening	RT model	RT PC name
VIS	PRM	GAS1	LVDT sensor, vertical	K1:VIS-PRM_F1_LVDT_V_SENS	ADC1	1				k1prm	k1ipr
VIS	PRM		spare		ADC1	2				k1prm	k1ipr
VIS	PRM		spare		ADC1	3				k1prm	k1ipr
VIS	PRM	BF	LVDT sensor, vertical	K1:VIS-PRM_BF_LVDT_V_SENS	ADC1	4				k1prm	k1ipr

VIS	PRM	GAS1	LVDT sensor biasl, vertical	K1:VIS-PRM_F1_LVDT_V_BIAS	DAC1	1				k1prm	k1ipr
VIS	PRM		spare		DAC1	2				k1prm	k1ipr
VIS	PRM		spare		DAC1	3				k1prm	k1ipr
VIS	PRM	BF	LVDT sensor biasl, vertical	K1:VIS-PRM_BF_LVDT_V_BIAS	DAC1	4				k1prm	k1ipr
VIS	PRM	GAS1	Voice coil monitor vertical	K1:VIS-PRM_F1_VC_V_MON	ADC1	5				k1prm	k1ipr
VIS	PRM		spare		ADC1	6				k1prm	k1ipr
VIS	PRM		spare		ADC1	7				k1prm	k1ipr
VIS	PRM	BF	Voice coil monitor vertical	K1:VIS-PRM_BF_VC_V_MON	ADC1	8				k1prm	k1ipr
VIS	PRM	GAS1	Voice coil actuator, vertical	K1:VIS-PRM_F1_VC_V_ACT	DAC1	5				k1prm	k1ipr
VIS	PRM		spare		DAC1	6				k1prm	k1ipr
VIS	PRM		spare		DAC1	7				k1prm	k1ipr
VIS	PRM	BF	Voice coil actuator, vertical	K1:VIS-PRM_BF_VC_V_ACT	DAC1	8				k1prm	k1ipr
VIS	PRM	OL	Optical lever	K1:VIS-PRM_OL_Q1	ADC1	9	1			k1prm	k1ipr
VIS	PRM	OL	Optical lever	K1:VIS-PRM_OL_Q2	ADC1	10	1			k1prm	k1ipr
VIS	PRM	OL	Optical lever	K1:VIS-PRM_OL_Q3	ADC1	11	1			k1prm	k1ipr
VIS	PRM	OL	Optical lever	K1:VIS-PRM_OL_Q4	ADC1	12	1			k1prm	k1ipr
VIS	PRM	SS	Wire position shadow sensor X	K1:VIS-PRM_WIRE_X	ADC1	13				k1prm	k1ipr
VIS	PRM	SS	Wire position shadow sensor Y	K1:VIS-PRM_WIRE_Y	ADC1	14				k1prm	k1ipr
VIS	PRM		spare		ADC1	15				k1prm	k1ipr
VIS	PRM		spare		ADC1	16				k1prm	k1ipr
VIS	PRM		spare		DAC1	9				k1prm	k1ipr
VIS	PRM		spare		DAC1	10				k1prm	k1ipr
VIS	PRM		spare		DAC1	11				k1prm	k1ipr
VIS	PRM		spare		DAC1	12				k1prm	k1ipr
VIS	PRM		spare		DAC1	13				k1prm	k1ipr
VIS	PRM		spare		DAC1	14				k1prm	k1ipr
VIS	PRM		spare		DAC1	15				k1prm	k1ipr
VIS	PRM		spare		DAC1	16				k1prm	k1ipr
VIS	PRM	IM	OSEM sensor, horizontal 1	K1:VIS-PRM_IM_H1_SENS	ADC1	17	1			k1prm	k1ipr
VIS	PRM	IM	OSEM sensor, horizontal 2	K1:VIS-PRM_IM_H2_SENS	ADC1	18	1			k1prm	k1ipr
VIS	PRM	IM	OSEM sensor, horizontal 3	K1:VIS-PRM_IM_H3_SENS	ADC1	19	1			k1prm	k1ipr
VIS	PRM		spare		ADC1	20	1			k1prm	k1ipr
VIS	PRM	IM	OSEM sensor, vertical 1	K1:VIS-PRM_IM_V1_SENS	ADC1	21	1			k1prm	k1ipr
VIS	PRM	IM	OSEM sensor, vertical 2	K1:VIS-PRM_IM_V2_SENS	ADC1	22	1			k1prm	k1ipr
VIS	PRM	IM	OSEM sensor, vertical 3	K1:VIS-PRM_IM_V3_SENS	ADC1	23	1			k1prm	k1ipr
VIS	PRM		spare		ADC1	24	1			k1prm	k1ipr
VIS	PRM	IM	OSEM actuator, horizontal 1	K1:VIS-PRM_IM_H1_ACT	DAC2	1			1	k1prm	k1ipr
VIS	PRM	IM	OSEM actuator, horizontal 2	K1:VIS-PRM_IM_H2_ACT	DAC2	2			1	k1prm	k1ipr
VIS	PRM	IM	OSEM actuator, horizontal 3	K1:VIS-PRM_IM_H3_ACT	DAC2	3			1	k1prm	k1ipr
VIS	PRM		spare		DAC2	4			1	k1prm	k1ipr
VIS	PRM	IM	OSEM actuator, vertical 1	K1:VIS-PRM_IM_V1_ACT	DAC2	5			1	k1prm	k1ipr
VIS	PRM	IM	OSEM actuator, vertical 2	K1:VIS-PRM_IM_V2_ACT	DAC2	6			1	k1prm	k1ipr
VIS	PRM	IM	OSEM actuator, vertical 3	K1:VIS-PRM_IM_V3_ACT	DAC2	7			1	k1prm	k1ipr
VIS	PRM		spare		DAC2	8			1	k1prm	k1ipr
VIS	PRM	TM	OSEM sensor, horizontal UL	K1:VIS-PRM_TM_UL_SENS	ADC1	25	1			k1prm	k1ipr
VIS	PRM	TM	OSEM sensor, horizontal UR	K2:VIS-PRM_TM_UR_SENS	ADC1	26	1			k1prm	k1ipr
VIS	PRM	TM	OSEM sensor, horizontal LR	K3:VIS-PRM_TM_LR_SENS	ADC1	27	1			k1prm	k1ipr
VIS	PRM	TM	OSEM sensor, horizontal LL	K4:VIS-PRM_TM_LL_SENS	ADC1	28	1			k1prm	k1ipr
VIS	PRM	TM	OSEM actuator, horizontal UL	K1:VIS-PRM_TM_UL_ACT	DAC2	9			1	k1prm	k1ipr
VIS	PRM	TM	OSEM actuator, horizontal UR	K1:VIS-PRM_TM_UR_ACT	DAC2	10			1	k1prm	k1ipr
VIS	PRM	TM	OSEM actuator, horizontal LR	K1:VIS-PRM_TM_LR_ACT	DAC2	11			1	k1prm	k1ipr
VIS	PRM	TM	OSEM actuator, horizontal LL	K1:VIS-PRM_TM_LL_ACT	DAC2	12			1	k1prm	k1ipr
VIS	PRM		spare		DAC2	13				k1prm	k1ipr
VIS	PRM		spare		DAC2	14				k1prm	k1ipr
VIS	PRM		spare		DAC2	15				k1prm	k1ipr
VIS	PRM		spare		DAC2	16				k1prm	k1ipr
VIS	PRM		spare		ADC1	29				k1prm	k1ipr
VIS	PRM		spare		ADC1	30				k1prm	k1ipr
VIS	PRM		spare		ADC1	31				k1prm	k1ipr
VIS	PRM		reserved for 1PPS		ADC1	32				k1prm	k1ipr
VIS	PR3	GAS1	LVDT sensor, vertical	K1:VIS-PR3_F1_LVDT_V_SENS	ADC2	1				k1pr3	k1ipr
VIS	PR3		spare		ADC2	2				k1pr3	k1ipr
VIS	PR3		spare		ADC2	3				k1pr3	k1ipr
VIS	PR3	BF	LVDT sensor, vertical	K1:VIS-PR3_BF_LVDT_V_SENS	ADC2	4				k1pr3	k1ipr
VIS	PR3	GAS1	LVDT sensor biasl, vertical	K1:VIS-PR3_F1_LVDT_V_BIAS	DAC3	1				k1pr3	k1ipr
VIS	PR3		spare		DAC3	2				k1pr3	k1ipr
VIS	PR3		spare		DAC3	3				k1pr3	k1ipr
VIS	PR3	BF	LVDT sensor biasl, vertical	K1:VIS-PR3_BF_LVDT_V_BIAS	DAC3	4				k1pr3	k1ipr
VIS	PR3	GAS1	Voice coil monitor vertical	K1:VIS-PR3_F1_VC_V_MON	ADC2	5				k1pr3	k1ipr
VIS	PR3		spare		ADC2	6				k1pr3	k1ipr
VIS	PR3		spare		ADC2	7				k1pr3	k1ipr

VIS	PR3	BF	Voice coil monitor vertical	K1:VIS-PR3_BF_VC_V_MON	ADC2	8				k1pr3	k1ipr
VIS	PR3	GAS1	Voice coil actuator, vertical	K1:VIS-PR3_F1_VC_V_ACT	DAC3	5				k1pr3	k1ipr
VIS	PR3		spare		DAC3	6				k1pr3	k1ipr
VIS	PR3		spare		DAC3	7				k1pr3	k1ipr
VIS	PR3	BF	Voice coil actuator, vertical	K1:VIS-PR3_BF_VC_V_ACT	DAC3	8				k1pr3	k1ipr
VIS	PR3	OL	Optical lever	K1:VIS-PR3_OL_Q1	ADC2	9	1			k1pr3	k1ipr
VIS	PR3	OL	Optical lever	K1:VIS-PR3_OL_Q2	ADC2	10	1			k1pr3	k1ipr
VIS	PR3	OL	Optical lever	K1:VIS-PR3_OL_Q3	ADC2	11	1			k1pr3	k1ipr
VIS	PR3	OL	Optical lever	K1:VIS-PR3_OL_Q4	ADC2	12	1			k1pr3	k1ipr
VIS	PR3	SS	Wire position shadow sensor X	K1:VIS-PR3_WIRE_X	ADC2	13				k1pr3	k1ipr
VIS	PR3	SS	Wire position shadow sensor Y	K1:VIS-PR3_WIRE_Y	ADC2	14				k1pr3	k1ipr
VIS	PR3		spare		ADC2	15				k1pr3	k1ipr
VIS	PR3		spare		ADC2	16				k1pr3	k1ipr
VIS	PR3		spare		DAC3	9				k1pr3	k1ipr
VIS	PR3		spare		DAC3	10				k1pr3	k1ipr
VIS	PR3		spare		DAC3	11				k1pr3	k1ipr
VIS	PR3		spare		DAC3	12				k1pr3	k1ipr
VIS	PR3		spare		DAC3	13				k1pr3	k1ipr
VIS	PR3		spare		DAC3	14				k1pr3	k1ipr
VIS	PR3		spare		DAC3	15				k1pr3	k1ipr
VIS	PR3		spare		DAC3	16				k1pr3	k1ipr
VIS	PR3	IM	OSEM sensor, horizontal 1	K1:VIS-PR3_IM_H1_SENS	ADC2	17	1			k1pr3	k1ipr
VIS	PR3	IM	OSEM sensor, horizontal 2	K1:VIS-PR3_IM_H2_SENS	ADC2	18	1			k1pr3	k1ipr
VIS	PR3	IM	OSEM sensor, horizontal 3	K1:VIS-PR3_IM_H3_SENS	ADC2	19	1			k1pr3	k1ipr
VIS	PR3		spare		ADC2	20	1			k1pr3	k1ipr
VIS	PR3	IM	OSEM sensor, vertical 1	K1:VIS-PR3_IM_V1_SENS	ADC2	21	1			k1pr3	k1ipr
VIS	PR3	IM	OSEM sensor, vertical 2	K1:VIS-PR3_IM_V2_SENS	ADC2	22	1			k1pr3	k1ipr
VIS	PR3	IM	OSEM sensor, vertical 3	K1:VIS-PR3_IM_V3_SENS	ADC2	23	1			k1pr3	k1ipr
VIS	PR3		spare		ADC2	24	1			k1pr3	k1ipr
VIS	PR3	IM	OSEM actuator, horizontal 1	K1:VIS-PR3_IM_H1_ACT	DAC4	1			1	k1pr3	k1ipr
VIS	PR3	IM	OSEM actuator, horizontal 2	K1:VIS-PR3_IM_H2_ACT	DAC4	2			1	k1pr3	k1ipr
VIS	PR3	IM	OSEM actuator, horizontal 3	K1:VIS-PR3_IM_H3_ACT	DAC4	3			1	k1pr3	k1ipr
VIS	PR3		spare		DAC4	4			1	k1pr3	k1ipr
VIS	PR3	IM	OSEM actuator, vertical 1	K1:VIS-PR3_IM_V1_ACT	DAC4	5			1	k1pr3	k1ipr
VIS	PR3	IM	OSEM actuator, vertical 2	K1:VIS-PR3_IM_V2_ACT	DAC4	6			1	k1pr3	k1ipr
VIS	PR3	IM	OSEM actuator, vertical 3	K1:VIS-PR3_IM_V3_ACT	DAC4	7			1	k1pr3	k1ipr
VIS	PR3		spare		DAC4	8			1	k1pr3	k1ipr
VIS	PR3	TM	OSEM sensor, horizontal UL	K1:VIS-PR3_TM_UL_SENS	ADC2	25	1			k1pr3	k1ipr
VIS	PR3	TM	OSEM sensor, horizontal UR	K2:VIS-PR3_TM_UR_SENS	ADC2	26	1			k1pr3	k1ipr
VIS	PR3	TM	OSEM sensor, horizontal LR	K3:VIS-PR3_TM_LR_SENS	ADC2	27	1			k1pr3	k1ipr
VIS	PR3	TM	OSEM sensor, horizontal LL	K4:VIS-PR3_TM_LL_SENS	ADC2	28	1			k1pr3	k1ipr
VIS	PR3	TM	OSEM actuator, horizontal UL	K1:VIS-PR3_TM_UL_ACT	DAC4	9			1	k1pr3	k1ipr
VIS	PR3	TM	OSEM actuator, horizontal UR	K1:VIS-PR3_TM_UR_ACT	DAC4	10			1	k1pr3	k1ipr
VIS	PR3	TM	OSEM actuator, horizontal LR	K1:VIS-PR3_TM_LR_ACT	DAC4	11			1	k1pr3	k1ipr
VIS	PR3	TM	OSEM actuator, horizontal LL	K1:VIS-PR3_TM_LL_ACT	DAC4	12			1	k1pr3	k1ipr
VIS	PR3		spare		DAC4	13				k1pr3	k1ipr
VIS	PR3		spare		DAC4	14				k1pr3	k1ipr
VIS	PR3		spare		DAC4	15				k1pr3	k1ipr
VIS	PR3		spare		DAC4	16				k1pr3	k1ipr
VIS	PR3		spare		ADC2	29				k1pr3	k1ipr
VIS	PR3		spare		ADC2	30				k1pr3	k1ipr
VIS	PR3		spare		ADC2	31				k1pr3	k1ipr
VIS	PR3		spare		ADC2	32				k1pr3	k1ipr

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISO whitening	Dewhitening	RT model	RT PC name
VIS	BS	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-BS_F0_LVDT_H1_SENS	ADC1	1				k1bs	k1ibs
VIS	BS	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-BS_F0_LVDT_H2_SENS	ADC1	2				k1bs	k1ibs
VIS	BS	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-BS_F0_LVDT_H3_SENS	ADC1	3				k1bs	k1ibs
VIS	BS	Pre-Isolator	LVDT sensor, vertical	K1:VIS-BS_F0_LVDT_V_SENS	ADC1	4				k1bs	k1ibs
VIS	BS	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-BS_F0_LVDT_H1_BIAS	DAC1	1				k1bs	k1ibs
VIS	BS	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-BS_F0_LVDT_H2_BIAS	DAC1	2				k1bs	k1ibs
VIS	BS	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-BS_F0_LVDT_H3_BIAS	DAC1	3				k1bs	k1ibs
VIS	BS	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-BS_F0_LVDT_V_BIAS	DAC1	4				k1bs	k1ibs
VIS	BS	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-BS_F0_VC_H1_MON	ADC1	5				k1bs	k1ibs
VIS	BS	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-BS_F0_VC_H2_MON	ADC1	6				k1bs	k1ibs
VIS	BS	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-BS_F0_VC_H3_MON	ADC1	7				k1bs	k1ibs
VIS	BS	Pre-Isolator	Voice coil monitor vertical	K1:VIS-BS_F0_VC_V_MON	ADC1	8				k1bs	k1ibs
VIS	BS	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-BS_F0_VC_H1_ACT	DAC1	5				k1bs	k1ibs
VIS	BS	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-BS_F0_VC_H2_ACT	DAC1	6				k1bs	k1ibs

VIS	BS	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-BS_F0_VC_H3_ACT	DAC1	7				k1bs	k1ibs
VIS	BS	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-BS_F0_VC_V_ACT	DAC1	8				k1bs	k1ibs
VIS	BS	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-BS_F0_ACC_H1_SENS	ADC1	9	1			k1bs	k1ibs
VIS	BS	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-BS_F0_ACC_H2_SENS	ADC1	10	1			k1bs	k1ibs
VIS	BS	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-BS_F0_ACC_H3_SENS	ADC1	11	1			k1bs	k1ibs
VIS	BS	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-BS_F0_ACC_V_SENS	ADC1	12	1			k1bs	k1ibs
VIS	BS		spare		ADC1	13				k1bs	k1ibs
VIS	BS		spare		ADC1	14				k1bs	k1ibs
VIS	BS		spare		ADC1	15				k1bs	k1ibs
VIS	BS		spare		ADC1	16				k1bs	k1ibs
VIS	BS		spare		ADC1	17				k1bs	k1ibs
VIS	BS		spare		ADC1	18				k1bs	k1ibs
VIS	BS		spare		ADC1	19				k1bs	k1ibs
VIS	BS	BF	LVDT sensor, vertical	K1:VIS-BS_BF_LVDT_V_SENS	ADC1	20				k1bs	k1ibs
VIS	BS		spare		DAC1	9				k1bs	k1ibs
VIS	BS		spare		DAC1	10				k1bs	k1ibs
VIS	BS		spare		DAC1	11				k1bs	k1ibs
VIS	BS	BF	LVDT sensor biasl, vertical	K1:VIS-BS_BF_LVDT_V_BIAS	DAC1	12				k1bs	k1ibs
VIS	BS		spare		ADC1	21				k1bs	k1ibs
VIS	BS		spare		ADC1	22				k1bs	k1ibs
VIS	BS		spare		ADC1	23				k1bs	k1ibs
VIS	BS	BF	Voice coil monitor vertical	K1:VIS-BS_BF_VC_V_MON	ADC1	24				k1bs	k1ibs
VIS	BS		spare		DAC1	13				k1bs	k1ibs
VIS	BS		spare		DAC1	14				k1bs	k1ibs
VIS	BS		spare		DAC1	15				k1bs	k1ibs
VIS	BS	BF	Voice coil actuator, vertical	K1:VIS-BS_BF_VC_V_ACT	DAC1	16				k1bs	k1ibs
VIS	BS		spare		ADC1	25				k1bs	k1ibs
VIS	BS		spare		ADC1	26				k1bs	k1ibs
VIS	BS		spare		ADC1	27				k1bs	k1ibs
VIS	BS		spare		ADC1	28				k1bs	k1ibs
VIS	BS		spare		ADC1	29				k1bs	k1ibs
VIS	BS		spare		ADC1	30				k1bs	k1ibs
VIS	BS		spare		ADC1	31				k1bs	k1ibs
VIS	BS		reserved for 1PPS		ADC1	32				k1bs	k1ibs
VIS	BS	IM	OSEM sensor, horizontal 1	K1:VIS-BS_IM_H1_SENS	ADC2	1	1			k1bs	k1ibs
VIS	BS	IM	OSEM sensor, horizontal 2	K1:VIS-BS_IM_H2_SENS	ADC2	2	1			k1bs	k1ibs
VIS	BS	IM	OSEM sensor, horizontal 3	K1:VIS-BS_IM_H3_SENS	ADC2	3	1			k1bs	k1ibs
VIS	BS		spare		ADC2	4	1			k1bs	k1ibs
VIS	BS	IM	OSEM sensor, vertical 1	K1:VIS-BS_IM_V1_SENS	ADC2	5	1			k1bs	k1ibs
VIS	BS	IM	OSEM sensor, vertical 2	K1:VIS-BS_IM_V2_SENS	ADC2	6	1			k1bs	k1ibs
VIS	BS	IM	OSEM sensor, vertical 3	K1:VIS-BS_IM_V3_SENS	ADC2	7	1			k1bs	k1ibs
VIS	BS		spare		ADC2	8	1			k1bs	k1ibs
VIS	BS	IM	OSEM actuator, horizontal 1	K1:VIS-BS_IM_H1_ACT	DAC2	1			1	k1bs	k1ibs
VIS	BS	IM	OSEM actuator, horizontal 2	K1:VIS-BS_IM_H2_ACT	DAC2	2			1	k1bs	k1ibs
VIS	BS	IM	OSEM actuator, horizontal 3	K1:VIS-BS_IM_H3_ACT	DAC2	3			1	k1bs	k1ibs
VIS	BS		spare		DAC2	4			1	k1bs	k1ibs
VIS	BS	IM	OSEM actuator, vertical 1	K1:VIS-BS_IM_V1_ACT	DAC2	5			1	k1bs	k1ibs
VIS	BS	IM	OSEM actuator, vertical 2	K1:VIS-BS_IM_V2_ACT	DAC2	6			1	k1bs	k1ibs
VIS	BS	IM	OSEM actuator, vertical 3	K1:VIS-BS_IM_V3_ACT	DAC2	7			1	k1bs	k1ibs
VIS	BS		spare		DAC2	8			1	k1bs	k1ibs
VIS	BS	TM	OSEM sensor, horizontal UL	K1:VIS-BS_TM_UL_SENS	ADC2	9	1			k1bs	k1ibs
VIS	BS	TM	OSEM sensor, horizontal UR	K2:VIS-BS_TM_UR_SENS	ADC2	10	1			k1bs	k1ibs
VIS	BS	TM	OSEM sensor, horizontal LR	K3:VIS-BS_TM_LR_SENS	ADC2	11	1			k1bs	k1ibs
VIS	BS	TM	OSEM sensor, horizontal LL	K4:VIS-BS_TM_LL_SENS	ADC2	12	1			k1bs	k1ibs
VIS	BS	TM	OSEM actuator, horizontal UL	K1:VIS-BS_TM_UL_ACT	DAC2	9			1	k1bs	k1ibs
VIS	BS	TM	OSEM actuator, horizontal UR	K1:VIS-BS_TM_UR_ACT	DAC2	10			1	k1bs	k1ibs
VIS	BS	TM	OSEM actuator, horizontal LR	K1:VIS-BS_TM_LR_ACT	DAC2	11			1	k1bs	k1ibs
VIS	BS	TM	OSEM actuator, horizontal LL	K1:VIS-BS_TM_LL_ACT	DAC2	12			1	k1bs	k1ibs
VIS	BS		spare		DAC2	13				k1bs	k1ibs
VIS	BS		spare		DAC2	14				k1bs	k1ibs
VIS	BS		spare		DAC2	15				k1bs	k1ibs
VIS	BS		spare		DAC2	16				k1bs	k1ibs
VIS	BS		spare		ADC2	13				k1bs	k1ibs
VIS	BS		spare		ADC2	14				k1bs	k1ibs
VIS	BS		spare		ADC2	15				k1bs	k1ibs
VIS	BS		spare		ADC2	16				k1bs	k1ibs
VIS	BS	OL	Optical lever	K1:VIS-BS_OL_Q1	ADC2	17	1			k1bs	k1ibs
VIS	BS	OL	Optical lever	K1:VIS-BS_OL_Q2	ADC2	18	1			k1bs	k1ibs
VIS	BS	OL	Optical lever	K1:VIS-BS_OL_Q3	ADC2	19	1			k1bs	k1ibs
VIS	BS	OL	Optical lever	K1:VIS-BS_OL_Q4	ADC2	20	1			k1bs	k1ibs
VIS	BS	SS	Wire position shadow sensor X	K1:VIS-BS_WIRE_X	ADC2	21				k1bs	k1ibs

VIS	BS	SS	Wire position shadow sensor Y	K1:VIS-BS_WIRE_Y	ADC2	22				k1bs	k1ibs
VIS	BS		spare		ADC2	23				k1bs	k1ibs
VIS	BS		spare		ADC2	24				k1bs	k1ibs
VIS	BS		spare		ADC2	25				k1bs	k1ibs
VIS	BS		spare		ADC2	26				k1bs	k1ibs
VIS	BS		spare		ADC2	27				k1bs	k1ibs
VIS	BS		spare		ADC2	28				k1bs	k1ibs
VIS	BS		spare		ADC2	29				k1bs	k1ibs
VIS	BS		spare		ADC2	30				k1bs	k1ibs
VIS	BS		spare		ADC2	31				k1bs	k1ibs
VIS	BS		spare		ADC2	32				k1bs	k1ibs

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	Dewhitening	RT model	RT PC name
VIS	PR2	GAS1	LVDT sensor, vertical	K1:VIS-PR2_F1_LVDT_V_SENS	ADC1	1				k1pr2	k1ipr2
VIS	PR2		spare		ADC1	2				k1pr2	k1ipr2
VIS	PR2		spare		ADC1	3				k1pr2	k1ipr2
VIS	PR2	BF	LVDT sensor, vertical	K1:VIS-PR2_BF_LVDT_V_SENS	ADC1	4				k1pr2	k1ipr2
VIS	PR2	GAS1	LVDT sensor biasl, vertical	K1:VIS-PR2_F1_LVDT_V_BIAS	DAC1	1				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	2				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	3				k1pr2	k1ipr2
VIS	PR2	BF	LVDT sensor biasl, vertical	K1:VIS-PR2_BF_LVDT_V_BIAS	DAC1	4				k1pr2	k1ipr2
VIS	PR2	GAS1	Voice coil monitor vertical	K1:VIS-PR2_F1_VC_V_MON	ADC1	5				k1pr2	k1ipr2
VIS	PR2		spare		ADC1	6				k1pr2	k1ipr2
VIS	PR2		spare		ADC1	7				k1pr2	k1ipr2
VIS	PR2	BF	Voice coil monitor vertical	K1:VIS-PR2_BF_VC_V_MON	ADC1	8				k1pr2	k1ipr2
VIS	PR2	GAS1	Voice coil actuator, vertical	K1:VIS-PR2_F1_VC_V_ACT	DAC1	5				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	6				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	7				k1pr2	k1ipr2
VIS	PR2	BF	Voice coil actuator, vertical	K1:VIS-PR2_BF_VC_V_ACT	DAC1	8				k1pr2	k1ipr2
VIS	PR2	OL	Optical lever	K1:VIS-PR2_OL_Q1	ADC1	9	1			k1pr2	k1ipr2
VIS	PR2	OL	Optical lever	K1:VIS-PR2_OL_Q2	ADC1	10	1			k1pr2	k1ipr2
VIS	PR2	OL	Optical lever	K1:VIS-PR2_OL_Q3	ADC1	11	1			k1pr2	k1ipr2
VIS	PR2	OL	Optical lever	K1:VIS-PR2_OL_Q4	ADC1	12	1			k1pr2	k1ipr2
VIS	PR2	SS	Wire position shadow sensor X	K1:VIS-PR2_WIRE_X	ADC1	13				k1pr2	k1ipr2
VIS	PR2	SS	Wire position shadow sensor Y	K1:VIS-PR2_WIRE_Y	ADC1	14				k1pr2	k1ipr2
VIS	PR2		spare		ADC1	15				k1pr2	k1ipr2
VIS	PR2		spare		ADC1	16				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	9				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	10				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	11				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	12				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	13				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	14				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	15				k1pr2	k1ipr2
VIS	PR2		spare		DAC1	16				k1pr2	k1ipr2
VIS	PR2	IM	OSEM sensor, horizontal 1	K1:VIS-PR2_IM_H1_SENS	ADC1	17	1			k1pr2	k1ipr2
VIS	PR2	IM	OSEM sensor, horizontal 2	K1:VIS-PR2_IM_H2_SENS	ADC1	18	1			k1pr2	k1ipr2
VIS	PR2	IM	OSEM sensor, horizontal 3	K1:VIS-PR2_IM_H3_SENS	ADC1	19	1			k1pr2	k1ipr2
VIS	PR2		spare		ADC1	20	1			k1pr2	k1ipr2
VIS	PR2	IM	OSEM sensor, vertical 1	K1:VIS-PR2_IM_V1_SENS	ADC1	21	1			k1pr2	k1ipr2
VIS	PR2	IM	OSEM sensor, vertical 2	K1:VIS-PR2_IM_V2_SENS	ADC1	22	1			k1pr2	k1ipr2
VIS	PR2	IM	OSEM sensor, vertical 3	K1:VIS-PR2_IM_V3_SENS	ADC1	23	1			k1pr2	k1ipr2
VIS	PR2		spare		ADC1	24	1			k1pr2	k1ipr2
VIS	PR2	IM	OSEM actuator, horizontal 1	K1:VIS-PR2_IM_H1_ACT	DAC2	1			1	k1pr2	k1ipr2
VIS	PR2	IM	OSEM actuator, horizontal 2	K1:VIS-PR2_IM_H2_ACT	DAC2	2			1	k1pr2	k1ipr2
VIS	PR2	IM	OSEM actuator, horizontal 3	K1:VIS-PR2_IM_H3_ACT	DAC2	3			1	k1pr2	k1ipr2
VIS	PR2		spare		DAC2	4			1	k1pr2	k1ipr2
VIS	PR2	IM	OSEM actuator, vertical 1	K1:VIS-PR2_IM_V1_ACT	DAC2	5			1	k1pr2	k1ipr2
VIS	PR2	IM	OSEM actuator, vertical 2	K1:VIS-PR2_IM_V2_ACT	DAC2	6			1	k1pr2	k1ipr2
VIS	PR2	IM	OSEM actuator, vertical 3	K1:VIS-PR2_IM_V3_ACT	DAC2	7			1	k1pr2	k1ipr2
VIS	PR2		spare		DAC2	8			1	k1pr2	k1ipr2
VIS	PR2	TM	OSEM sensor, horizontal UL	K1:VIS-PR2_TM_UL_SENS	ADC1	25	1			k1pr2	k1ipr2
VIS	PR2	TM	OSEM sensor, horizontal UR	K2:VIS-PR2_TM_UR_SENS	ADC1	26	1			k1pr2	k1ipr2
VIS	PR2	TM	OSEM sensor, horizontal LR	K3:VIS-PR2_TM_LR_SENS	ADC1	27	1			k1pr2	k1ipr2
VIS	PR2	TM	OSEM sensor, horizontal LL	K4:VIS-PR2_TM_LL_SENS	ADC1	28	1			k1pr2	k1ipr2
VIS	PR2	TM	OSEM actuator, horizontal UL	K1:VIS-PR2_TM_UL_ACT	DAC2	9			1	k1pr2	k1ipr2
VIS	PR2	TM	OSEM actuator, horizontal UR	K1:VIS-PR2_TM_UR_ACT	DAC2	10			1	k1pr2	k1ipr2
VIS	PR2	TM	OSEM actuator, horizontal LR	K1:VIS-PR2_TM_LR_ACT	DAC2	11			1	k1pr2	k1ipr2
VIS	PR2	TM	OSEM actuator, horizontal LL	K1:VIS-PR2_TM_LL_ACT	DAC2	12			1	k1pr2	k1ipr2



VIS	PR2		spare		DAC2	13				k1pr2	k1pr2
VIS	PR2		spare		DAC2	14				k1pr2	k1pr2
VIS	PR2		spare		DAC2	15				k1pr2	k1pr2
VIS	PR2		spare		DAC2	16				k1pr2	k1pr2
VIS	PR2		spare		ADC1	29				k1pr2	k1pr2
VIS	PR2		spare		ADC1	30				k1pr2	k1pr2
VIS	PR2		spare		ADC1	31				k1pr2	k1pr2
VIS	PR2		reserved for 1PPS		ADC1	32				k1pr2	k1pr2

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISG whitening	Dewhitening	RT model	RT PC name
VIS	SR2	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-SR2_F0_LVDT_H1_SENS	ADC1	1				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-SR2_F0_LVDT_H2_SENS	ADC1	2				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-SR2_F0_LVDT_H3_SENS	ADC1	3				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	LVDT sensor, vertical	K1:VIS-SR2_F0_LVDT_V_SENS	ADC1	4				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-SR2_F0_LVDT_H1_BIAS	DAC1	1				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-SR2_F0_LVDT_H2_BIAS	DAC1	2				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-SR2_F0_LVDT_H3_BIAS	DAC1	3				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-SR2_F0_LVDT_V_BIAS	DAC1	4				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-SR2_F0_VC_H1_MON	ADC1	5				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-SR2_F0_VC_H2_MON	ADC1	6				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-SR2_F0_VC_H3_MON	ADC1	7				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Voice coil monitor vertical	K1:VIS-SR2_F0_VC_V_MON	ADC1	8				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-SR2_F0_VC_H1_ACT	DAC1	5				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-SR2_F0_VC_H2_ACT	DAC1	6				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-SR2_F0_VC_H3_ACT	DAC1	7				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-SR2_F0_VC_V_ACT	DAC1	8				k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-SR2_F0_ACC_H1_SENS	ADC1	9	1			k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-SR2_F0_ACC_H2_SENS	ADC1	10	1			k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-SR2_F0_ACC_H3_SENS	ADC1	11	1			k1sr2	k1sr2
VIS	SR2	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-SR2_F0_ACC_V_SENS	ADC1	12	1			k1sr2	k1sr2
VIS	SR2		spare		ADC1	13				k1sr2	k1sr2
VIS	SR2		spare		ADC1	14				k1sr2	k1sr2
VIS	SR2		spare		ADC1	15				k1sr2	k1sr2
VIS	SR2		spare		ADC1	16				k1sr2	k1sr2
VIS	SR2		spare		ADC1	17				k1sr2	k1sr2
VIS	SR2		spare		ADC1	18				k1sr2	k1sr2
VIS	SR2		spare		ADC1	19				k1sr2	k1sr2
VIS	SR2	BF	LVDT sensor, vertical	K1:VIS-SR2_BF_LVDT_V_SENS	ADC1	20				k1sr2	k1sr2
VIS	SR2		spare		DAC1	9				k1sr2	k1sr2
VIS	SR2		spare		DAC1	10				k1sr2	k1sr2
VIS	SR2		spare		DAC1	11				k1sr2	k1sr2
VIS	SR2	BF	LVDT sensor biasl, vertical	K1:VIS-SR2_BF_LVDT_V_BIAS	DAC1	12				k1sr2	k1sr2
VIS	SR2		spare		ADC1	21				k1sr2	k1sr2
VIS	SR2		spare		ADC1	22				k1sr2	k1sr2
VIS	SR2		spare		ADC1	23				k1sr2	k1sr2
VIS	SR2	BF	Voice coil monitor vertical	K1:VIS-SR2_BF_VC_V_MON	ADC1	24				k1sr2	k1sr2
VIS	SR2		spare		DAC1	13				k1sr2	k1sr2
VIS	SR2		spare		DAC1	14				k1sr2	k1sr2
VIS	SR2		spare		DAC1	15				k1sr2	k1sr2
VIS	SR2	BF	Voice coil actuator, vertical	K1:VIS-SR2_BF_VC_V_ACT	DAC1	16				k1sr2	k1sr2
VIS	SR2		spare		ADC1	25				k1sr2	k1sr2
VIS	SR2		spare		ADC1	26				k1sr2	k1sr2
VIS	SR2		spare		ADC1	27				k1sr2	k1sr2
VIS	SR2		spare		ADC1	28				k1sr2	k1sr2
VIS	SR2		spare		ADC1	29				k1sr2	k1sr2
VIS	SR2		spare		ADC1	30				k1sr2	k1sr2
VIS	SR2		spare		ADC1	31				k1sr2	k1sr2
VIS	SR2		reserved for 1PPS		ADC1	32				k1sr2	k1sr2
VIS	SR2	IM	OSEM sensor, horizontal 1	K1:VIS-SR2_IM_H1_SENS	ADC2	1	1			k1sr2	k1sr2
VIS	SR2	IM	OSEM sensor, horizontal 2	K1:VIS-SR2_IM_H2_SENS	ADC2	2	1			k1sr2	k1sr2
VIS	SR2	IM	OSEM sensor, horizontal 3	K1:VIS-SR2_IM_H3_SENS	ADC2	3	1			k1sr2	k1sr2
VIS	SR2		spare		ADC2	4	1			k1sr2	k1sr2
VIS	SR2	IM	OSEM sensor, vertical 1	K1:VIS-SR2_IM_V1_SENS	ADC2	5	1			k1sr2	k1sr2
VIS	SR2	IM	OSEM sensor, vertical 2	K1:VIS-SR2_IM_V2_SENS	ADC2	6	1			k1sr2	k1sr2
VIS	SR2	IM	OSEM sensor, vertical 3	K1:VIS-SR2_IM_V3_SENS	ADC2	7	1			k1sr2	k1sr2
VIS	SR2		spare		ADC2	8	1			k1sr2	k1sr2
VIS	SR2	IM	OSEM actuator, horizontal 1	K1:VIS-SR2_IM_H1_ACT	DAC2	1			1	k1sr2	k1sr2
VIS	SR2	IM	OSEM actuator, horizontal 2	K1:VIS-SR2_IM_H2_ACT	DAC2	2			1	k1sr2	k1sr2
VIS	SR2	IM	OSEM actuator, horizontal 3	K1:VIS-SR2_IM_H3_ACT	DAC2	3			1	k1sr2	k1sr2

VIS	SR2		spare		DAC2	4			1	k1sr2	k1sr2
VIS	SR2	IM	OSEM actuator, vertical 1	K1:VIS-SR2_IM_V1_ACT	DAC2	5			1	k1sr2	k1sr2
VIS	SR2	IM	OSEM actuator, vertical 2	K1:VIS-SR2_IM_V2_ACT	DAC2	6			1	k1sr2	k1sr2
VIS	SR2	IM	OSEM actuator, vertical 3	K1:VIS-SR2_IM_V3_ACT	DAC2	7			1	k1sr2	k1sr2
VIS	SR2		spare		DAC2	8			1	k1sr2	k1sr2
VIS	SR2	TM	OSEM sensor, horizontal UL	K1:VIS-SR2_TM_UL_SENS	ADC2	9	1			k1sr2	k1sr2
VIS	SR2	TM	OSEM sensor, horizontal UR	K2:VIS-SR2_TM_UR_SENS	ADC2	10	1			k1sr2	k1sr2
VIS	SR2	TM	OSEM sensor, horizontal LR	K3:VIS-SR2_TM_LR_SENS	ADC2	11	1			k1sr2	k1sr2
VIS	SR2	TM	OSEM sensor, horizontal LL	K4:VIS-SR2_TM_LL_SENS	ADC2	12	1			k1sr2	k1sr2
VIS	SR2	TM	OSEM actuator, horizontal UL	K1:VIS-SR2_TM_UL_ACT	DAC2	9			1	k1sr2	k1sr2
VIS	SR2	TM	OSEM actuator, horizontal UR	K1:VIS-SR2_TM_UR_ACT	DAC2	10			1	k1sr2	k1sr2
VIS	SR2	TM	OSEM actuator, horizontal LR	K1:VIS-SR2_TM_LR_ACT	DAC2	11			1	k1sr2	k1sr2
VIS	SR2	TM	OSEM actuator, horizontal LL	K1:VIS-SR2_TM_LL_ACT	DAC2	12			1	k1sr2	k1sr2
VIS	SR2		spare		DAC2	13				k1sr2	k1sr2
VIS	SR2		spare		DAC2	14				k1sr2	k1sr2
VIS	SR2		spare		DAC2	15				k1sr2	k1sr2
VIS	SR2		spare		DAC2	16				k1sr2	k1sr2
VIS	SR2		spare		ADC2	13				k1sr2	k1sr2
VIS	SR2		spare		ADC2	14				k1sr2	k1sr2
VIS	SR2		spare		ADC2	15				k1sr2	k1sr2
VIS	SR2		spare		ADC2	16				k1sr2	k1sr2
VIS	SR2	OL	Optical lever	K1:VIS-SR2_OL_Q1	ADC2	17	1			k1sr2	k1sr2
VIS	SR2	OL	Optical lever	K1:VIS-SR2_OL_Q2	ADC2	18	1			k1sr2	k1sr2
VIS	SR2	OL	Optical lever	K1:VIS-SR2_OL_Q3	ADC2	19	1			k1sr2	k1sr2
VIS	SR2	OL	Optical lever	K1:VIS-SR2_OL_Q4	ADC2	20	1			k1sr2	k1sr2
VIS	SR2	SS	Wire position shadow sensor X	K1:VIS-SR2_WIRE_X	ADC2	21				k1sr2	k1sr2
VIS	SR2	SS	Wire position shadow sensor Y	K1:VIS-SR2_WIRE_Y	ADC2	22				k1sr2	k1sr2
VIS	SR2		spare		ADC2	23				k1sr2	k1sr2
VIS	SR2		spare		ADC2	24				k1sr2	k1sr2
VIS	SR2		spare		ADC2	25				k1sr2	k1sr2
VIS	SR2		spare		ADC2	26				k1sr2	k1sr2
VIS	SR2		spare		ADC2	27				k1sr2	k1sr2
VIS	SR2		spare		ADC2	28				k1sr2	k1sr2
VIS	SR2		spare		ADC2	29				k1sr2	k1sr2
VIS	SR2		spare		ADC2	30				k1sr2	k1sr2
VIS	SR2		spare		ADC2	31				k1sr2	k1sr2
VIS	SR2		spare		ADC2	32				k1sr2	k1sr2

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISO whitening	Dewhitening	RT model	RT PC name
VIS	SR3	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-SR3_F0_LVDT_H1_SENS	ADC1	1				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-SR3_F0_LVDT_H2_SENS	ADC1	2				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-SR3_F0_LVDT_H3_SENS	ADC1	3				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	LVDT sensor, vertical	K1:VIS-SR3_F0_LVDT_V_SENS	ADC1	4				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-SR3_F0_LVDT_H1_BIAS	DAC1	1				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-SR3_F0_LVDT_H2_BIAS	DAC1	2				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-SR3_F0_LVDT_H3_BIAS	DAC1	3				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-SR3_F0_LVDT_V_BIAS	DAC1	4				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-SR3_F0_VC_H1_MON	ADC1	5				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-SR3_F0_VC_H2_MON	ADC1	6				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-SR3_F0_VC_H3_MON	ADC1	7				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Voice coil monitor vertical	K1:VIS-SR3_F0_VC_V_MON	ADC1	8				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-SR3_F0_VC_H1_ACT	DAC1	5				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-SR3_F0_VC_H2_ACT	DAC1	6				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-SR3_F0_VC_H3_ACT	DAC1	7				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-SR3_F0_VC_V_ACT	DAC1	8				k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-SR3_F0_ACC_H1_SENS	ADC1	9	1			k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-SR3_F0_ACC_H2_SENS	ADC1	10	1			k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-SR3_F0_ACC_H3_SENS	ADC1	11	1			k1sr3	k1sr3
VIS	SR3	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-SR3_F0_ACC_V_SENS	ADC1	12	1			k1sr3	k1sr3
VIS	SR3		spare		ADC1	13				k1sr3	k1sr3
VIS	SR3		spare		ADC1	14				k1sr3	k1sr3
VIS	SR3		spare		ADC1	15				k1sr3	k1sr3
VIS	SR3		spare		ADC1	16				k1sr3	k1sr3
VIS	SR3		spare		ADC1	17				k1sr3	k1sr3
VIS	SR3		spare		ADC1	18				k1sr3	k1sr3
VIS	SR3		spare		ADC1	19				k1sr3	k1sr3
VIS	SR3	BF	LVDT sensor, vertical	K1:VIS-SR3_BF_LVDT_V_SENS	ADC1	20				k1sr3	k1sr3
VIS	SR3		spare		DAC1	9				k1sr3	k1sr3
VIS	SR3		spare		DAC1	10				k1sr3	k1sr3

VIS	SR3		spare		DAC1	11				k1sr3	k1sr3
VIS	SR3	BF	LVDT sensor biasl, vertical	K1:VIS-SR3_BF_LVDT_V_BIAS	DAC1	12				k1sr3	k1sr3
VIS	SR3		spare		ADC1	21				k1sr3	k1sr3
VIS	SR3		spare		ADC1	22				k1sr3	k1sr3
VIS	SR3		spare		ADC1	23				k1sr3	k1sr3
VIS	SR3	BF	Voice coil monitor vertical	K1:VIS-SR3_BF_VC_V_MON	ADC1	24				k1sr3	k1sr3
VIS	SR3		spare		DAC1	13				k1sr3	k1sr3
VIS	SR3		spare		DAC1	14				k1sr3	k1sr3
VIS	SR3		spare		DAC1	15				k1sr3	k1sr3
VIS	SR3	BF	Voice coil actuator, vertical	K1:VIS-SR3_BF_VC_V_ACT	DAC1	16				k1sr3	k1sr3
VIS	SR3		spare		ADC1	25				k1sr3	k1sr3
VIS	SR3		spare		ADC1	26				k1sr3	k1sr3
VIS	SR3		spare		ADC1	27				k1sr3	k1sr3
VIS	SR3		spare		ADC1	28				k1sr3	k1sr3
VIS	SR3		spare		ADC1	29				k1sr3	k1sr3
VIS	SR3		spare		ADC1	30				k1sr3	k1sr3
VIS	SR3		spare		ADC1	31				k1sr3	k1sr3
VIS	SR3		reserved for 1PPS		ADC1	32				k1sr3	k1sr3
VIS	SR3	IM	OSEM sensor, horizontal 1	K1:VIS-SR3_IM_H1_SENS	ADC2	1	1			k1sr3	k1sr3
VIS	SR3	IM	OSEM sensor, horizontal 2	K1:VIS-SR3_IM_H2_SENS	ADC2	2	1			k1sr3	k1sr3
VIS	SR3	IM	OSEM sensor, horizontal 3	K1:VIS-SR3_IM_H3_SENS	ADC2	3	1			k1sr3	k1sr3
VIS	SR3		spare		ADC2	4	1			k1sr3	k1sr3
VIS	SR3	IM	OSEM sensor, vertical 1	K1:VIS-SR3_IM_V1_SENS	ADC2	5	1			k1sr3	k1sr3
VIS	SR3	IM	OSEM sensor, vertical 2	K1:VIS-SR3_IM_V2_SENS	ADC2	6	1			k1sr3	k1sr3
VIS	SR3	IM	OSEM sensor, vertical 3	K1:VIS-SR3_IM_V3_SENS	ADC2	7	1			k1sr3	k1sr3
VIS	SR3		spare		ADC2	8	1			k1sr3	k1sr3
VIS	SR3	IM	OSEM actuator, horizontal 1	K1:VIS-SR3_IM_H1_ACT	DAC2	1			1	k1sr3	k1sr3
VIS	SR3	IM	OSEM actuator, horizontal 2	K1:VIS-SR3_IM_H2_ACT	DAC2	2			1	k1sr3	k1sr3
VIS	SR3	IM	OSEM actuator, horizontal 3	K1:VIS-SR3_IM_H3_ACT	DAC2	3			1	k1sr3	k1sr3
VIS	SR3		spare		DAC2	4			1	k1sr3	k1sr3
VIS	SR3	IM	OSEM actuator, vertical 1	K1:VIS-SR3_IM_V1_ACT	DAC2	5			1	k1sr3	k1sr3
VIS	SR3	IM	OSEM actuator, vertical 2	K1:VIS-SR3_IM_V2_ACT	DAC2	6			1	k1sr3	k1sr3
VIS	SR3	IM	OSEM actuator, vertical 3	K1:VIS-SR3_IM_V3_ACT	DAC2	7			1	k1sr3	k1sr3
VIS	SR3		spare		DAC2	8			1	k1sr3	k1sr3
VIS	SR3	TM	OSEM sensor, horizontal UL	K1:VIS-SR3_TM_UL_SENS	ADC2	9	1			k1sr3	k1sr3
VIS	SR3	TM	OSEM sensor, horizontal UR	K2:VIS-SR3_TM_UR_SENS	ADC2	10	1			k1sr3	k1sr3
VIS	SR3	TM	OSEM sensor, horizontal LR	K3:VIS-SR3_TM_LR_SENS	ADC2	11	1			k1sr3	k1sr3
VIS	SR3	TM	OSEM sensor, horizontal LL	K4:VIS-SR3_TM_LL_SENS	ADC2	12	1			k1sr3	k1sr3
VIS	SR3	TM	OSEM actuator, horizontal UL	K1:VIS-SR3_TM_UL_ACT	DAC2	9			1	k1sr3	k1sr3
VIS	SR3	TM	OSEM actuator, horizontal UR	K1:VIS-SR3_TM_UR_ACT	DAC2	10			1	k1sr3	k1sr3
VIS	SR3	TM	OSEM actuator, horizontal LR	K1:VIS-SR3_TM_LR_ACT	DAC2	11			1	k1sr3	k1sr3
VIS	SR3	TM	OSEM actuator, horizontal LL	K1:VIS-SR3_TM_LL_ACT	DAC2	12			1	k1sr3	k1sr3
VIS	SR3		spare		DAC2	13				k1sr3	k1sr3
VIS	SR3		spare		DAC2	14				k1sr3	k1sr3
VIS	SR3		spare		DAC2	15				k1sr3	k1sr3
VIS	SR3		spare		DAC2	16				k1sr3	k1sr3
VIS	SR3		spare		ADC2	13				k1sr3	k1sr3
VIS	SR3		spare		ADC2	14				k1sr3	k1sr3
VIS	SR3		spare		ADC2	15				k1sr3	k1sr3
VIS	SR3		spare		ADC2	16				k1sr3	k1sr3
VIS	SR3	OL	Optical lever	K1:VIS-SR3_OL_Q1	ADC2	17	1			k1sr3	k1sr3
VIS	SR3	OL	Optical lever	K1:VIS-SR3_OL_Q2	ADC2	18	1			k1sr3	k1sr3
VIS	SR3	OL	Optical lever	K1:VIS-SR3_OL_Q3	ADC2	19	1			k1sr3	k1sr3
VIS	SR3	OL	Optical lever	K1:VIS-SR3_OL_Q4	ADC2	20	1			k1sr3	k1sr3
VIS	SR3	SS	Wire posision shadow sensor X	K1:VIS-SR3_WIRE_X	ADC2	21				k1sr3	k1sr3
VIS	SR3	SS	Wire posision shadow sensor Y	K1:VIS-SR3_WIRE_Y	ADC2	22				k1sr3	k1sr3
VIS	SR3		spare		ADC2	23				k1sr3	k1sr3
VIS	SR3		spare		ADC2	24				k1sr3	k1sr3
VIS	SR3		spare		ADC2	25				k1sr3	k1sr3
VIS	SR3		spare		ADC2	26				k1sr3	k1sr3
VIS	SR3		spare		ADC2	27				k1sr3	k1sr3
VIS	SR3		spare		ADC2	28				k1sr3	k1sr3
VIS	SR3		spare		ADC2	29				k1sr3	k1sr3
VIS	SR3		spare		ADC2	30				k1sr3	k1sr3
VIS	SR3		spare		ADC2	31				k1sr3	k1sr3
VIS	SR3		spare		ADC2	32				k1sr3	k1sr3

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISO whitening	Dewhitening	RT model	RT PC name
VIS	SRM	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-SRM_F0_LVDT_H1_SENS	ADC1	1				k1srm	k1srm

VIS	SRM	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-SRM_F0_LVDT_H2_SENS	ADC1	2				k1srm	k1srm
VIS	SRM	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-SRM_F0_LVDT_H3_SENS	ADC1	3				k1srm	k1srm
VIS	SRM	Pre-Isolator	LVDT sensor, vertical	K1:VIS-SRM_F0_LVDT_V_SENS	ADC1	4				k1srm	k1srm
VIS	SRM	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-SRM_F0_LVDT_H1_BIAS	DAC1	1				k1srm	k1srm
VIS	SRM	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-SRM_F0_LVDT_H2_BIAS	DAC1	2				k1srm	k1srm
VIS	SRM	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-SRM_F0_LVDT_H3_BIAS	DAC1	3				k1srm	k1srm
VIS	SRM	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-SRM_F0_LVDT_V_BIAS	DAC1	4				k1srm	k1srm
VIS	SRM	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-SRM_F0_VC_H1_MON	ADC1	5				k1srm	k1srm
VIS	SRM	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-SRM_F0_VC_H2_MON	ADC1	6				k1srm	k1srm
VIS	SRM	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-SRM_F0_VC_H3_MON	ADC1	7				k1srm	k1srm
VIS	SRM	Pre-Isolator	Voice coil monitor vertical	K1:VIS-SRM_F0_VC_V_MON	ADC1	8				k1srm	k1srm
VIS	SRM	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-SRM_F0_VC_H1_ACT	DAC1	5				k1srm	k1srm
VIS	SRM	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-SRM_F0_VC_H2_ACT	DAC1	6				k1srm	k1srm
VIS	SRM	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-SRM_F0_VC_H3_ACT	DAC1	7				k1srm	k1srm
VIS	SRM	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-SRM_F0_VC_V_ACT	DAC1	8				k1srm	k1srm
VIS	SRM	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-SRM_F0_ACC_H1_SENS	ADC1	9	1			k1srm	k1srm
VIS	SRM	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-SRM_F0_ACC_H2_SENS	ADC1	10	1			k1srm	k1srm
VIS	SRM	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-SRM_F0_ACC_H3_SENS	ADC1	11	1			k1srm	k1srm
VIS	SRM	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-SRM_F0_ACC_V_SENS	ADC1	12	1			k1srm	k1srm
VIS	SRM		spare		ADC1	13				k1srm	k1srm
VIS	SRM		spare		ADC1	14				k1srm	k1srm
VIS	SRM		spare		ADC1	15				k1srm	k1srm
VIS	SRM		spare		ADC1	16				k1srm	k1srm
VIS	SRM		spare		ADC1	17				k1srm	k1srm
VIS	SRM		spare		ADC1	18				k1srm	k1srm
VIS	SRM		spare		ADC1	19				k1srm	k1srm
VIS	SRM	BF	LVDT sensor, vertical	K1:VIS-SRM_BF_LVDT_V_SENS	ADC1	20				k1srm	k1srm
VIS	SRM		spare		DAC1	9				k1srm	k1srm
VIS	SRM		spare		DAC1	10				k1srm	k1srm
VIS	SRM		spare		DAC1	11				k1srm	k1srm
VIS	SRM	BF	LVDT sensor biasl, vertical	K1:VIS-SRM_BF_LVDT_V_BIAS	DAC1	12				k1srm	k1srm
VIS	SRM		spare		ADC1	21				k1srm	k1srm
VIS	SRM		spare		ADC1	22				k1srm	k1srm
VIS	SRM		spare		ADC1	23				k1srm	k1srm
VIS	SRM	BF	Voice coil monitor vertical	K1:VIS-SRM_BF_VC_V_MON	ADC1	24				k1srm	k1srm
VIS	SRM		spare		DAC1	13				k1srm	k1srm
VIS	SRM		spare		DAC1	14				k1srm	k1srm
VIS	SRM		spare		DAC1	15				k1srm	k1srm
VIS	SRM	BF	Voice coil actuator, vertical	K1:VIS-SRM_BF_VC_V_ACT	DAC1	16				k1srm	k1srm
VIS	SRM		spare		ADC1	25				k1srm	k1srm
VIS	SRM		spare		ADC1	26				k1srm	k1srm
VIS	SRM		spare		ADC1	27				k1srm	k1srm
VIS	SRM		spare		ADC1	28				k1srm	k1srm
VIS	SRM		spare		ADC1	29				k1srm	k1srm
VIS	SRM		spare		ADC1	30				k1srm	k1srm
VIS	SRM		spare		ADC1	31				k1srm	k1srm
VIS	SRM		reserved for 1PPS		ADC1	32				k1srm	k1srm
VIS	SRM	IM	OSEM sensor, horizontal 1	K1:VIS-SRM_IM_H1_SENS	ADC2	1	1			k1srm	k1srm
VIS	SRM	IM	OSEM sensor, horizontal 2	K1:VIS-SRM_IM_H2_SENS	ADC2	2	1			k1srm	k1srm
VIS	SRM	IM	OSEM sensor, horizontal 3	K1:VIS-SRM_IM_H3_SENS	ADC2	3	1			k1srm	k1srm
VIS	SRM		spare		ADC2	4	1			k1srm	k1srm
VIS	SRM	IM	OSEM sensor, vertical 1	K1:VIS-SRM_IM_V1_SENS	ADC2	5	1			k1srm	k1srm
VIS	SRM	IM	OSEM sensor, vertical 2	K1:VIS-SRM_IM_V2_SENS	ADC2	6	1			k1srm	k1srm
VIS	SRM	IM	OSEM sensor, vertical 3	K1:VIS-SRM_IM_V3_SENS	ADC2	7	1			k1srm	k1srm
VIS	SRM		spare		ADC2	8	1			k1srm	k1srm
VIS	SRM	IM	OSEM actuator, horizontal 1	K1:VIS-SRM_IM_H1_ACT	DAC2	1			1	k1srm	k1srm
VIS	SRM	IM	OSEM actuator, horizontal 2	K1:VIS-SRM_IM_H2_ACT	DAC2	2			1	k1srm	k1srm
VIS	SRM	IM	OSEM actuator, horizontal 3	K1:VIS-SRM_IM_H3_ACT	DAC2	3			1	k1srm	k1srm
VIS	SRM		spare		DAC2	4			1	k1srm	k1srm
VIS	SRM	IM	OSEM actuator, vertical 1	K1:VIS-SRM_IM_V1_ACT	DAC2	5			1	k1srm	k1srm
VIS	SRM	IM	OSEM actuator, vertical 2	K1:VIS-SRM_IM_V2_ACT	DAC2	6			1	k1srm	k1srm
VIS	SRM	IM	OSEM actuator, vertical 3	K1:VIS-SRM_IM_V3_ACT	DAC2	7			1	k1srm	k1srm
VIS	SRM		spare		DAC2	8			1	k1srm	k1srm
VIS	SRM	TM	OSEM sensor, horizontal UL	K1:VIS-SRM_TM_UL_SENS	ADC2	9	1			k1srm	k1srm
VIS	SRM	TM	OSEM sensor, horizontal UR	K2:VIS-SRM_TM_UR_SENS	ADC2	10	1			k1srm	k1srm
VIS	SRM	TM	OSEM sensor, horizontal LR	K3:VIS-SRM_TM_LR_SENS	ADC2	11	1			k1srm	k1srm
VIS	SRM	TM	OSEM sensor, horizontal LL	K4:VIS-SRM_TM_LL_SENS	ADC2	12	1			k1srm	k1srm
VIS	SRM	TM	OSEM actuator, horizontal UL	K1:VIS-SRM_TM_UL_ACT	DAC2	9			1	k1srm	k1srm
VIS	SRM	TM	OSEM actuator, horizontal UR	K1:VIS-SRM_TM_UR_ACT	DAC2	10			1	k1srm	k1srm
VIS	SRM	TM	OSEM actuator, horizontal LR	K1:VIS-SRM_TM_LR_ACT	DAC2	11			1	k1srm	k1srm
VIS	SRM	TM	OSEM actuator, horizontal LL	K1:VIS-SRM_TM_LL_ACT	DAC2	12			1	k1srm	k1srm

VIS	SRM		spare		DAC2	13				k1srm	k1srm
VIS	SRM		spare		DAC2	14				k1srm	k1srm
VIS	SRM		spare		DAC2	15				k1srm	k1srm
VIS	SRM		spare		DAC2	16				k1srm	k1srm
VIS	SRM		spare		ADC2	13				k1srm	k1srm
VIS	SRM		spare		ADC2	14				k1srm	k1srm
VIS	SRM		spare		ADC2	15				k1srm	k1srm
VIS	SRM		spare		ADC2	16				k1srm	k1srm
VIS	SRM	OL	Optical lever	K1:VIS-SRM_OL_Q1	ADC2	17	1			k1srm	k1srm
VIS	SRM	OL	Optical lever	K1:VIS-SRM_OL_Q2	ADC2	18	1			k1srm	k1srm
VIS	SRM	OL	Optical lever	K1:VIS-SRM_OL_Q3	ADC2	19	1			k1srm	k1srm
VIS	SRM	OL	Optical lever	K1:VIS-SRM_OL_Q4	ADC2	20	1			k1srm	k1srm
VIS	SRM	SS	Wire position shadow sensor X	K1:VIS-SRM_WIRE_X	ADC2	21				k1srm	k1srm
VIS	SRM	SS	Wire position shadow sensor Y	K1:VIS-SRM_WIRE_Y	ADC2	22				k1srm	k1srm
VIS	SRM		spare		ADC2	23				k1srm	k1srm
VIS	SRM		spare		ADC2	24				k1srm	k1srm
VIS	SRM		spare		ADC2	25				k1srm	k1srm
VIS	SRM		spare		ADC2	26				k1srm	k1srm
VIS	SRM		spare		ADC2	27				k1srm	k1srm
VIS	SRM		spare		ADC2	28				k1srm	k1srm
VIS	SRM		spare		ADC2	29				k1srm	k1srm
VIS	SRM		spare		ADC2	30				k1srm	k1srm
VIS	SRM		spare		ADC2	31				k1srm	k1srm
VIS	SRM		spare		ADC2	32				k1srm	k1srm

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	Dewhitening	RT model	RT PC name
VIS	IX	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-IX_F0_LVDT_H1_SENS	ADC1	1				k1ix	k1ix1
VIS	IX	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-IX_F0_LVDT_H2_SENS	ADC1	2				k1ix	k1ix1
VIS	IX	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-IX_F0_LVDT_H3_SENS	ADC1	3				k1ix	k1ix1
VIS	IX	Pre-Isolator	LVDT sensor, vertical	K1:VIS-IX_F0_LVDT_V_SENS	ADC1	4				k1ix	k1ix1
VIS	IX	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-IX_F0_LVDT_H1_BIAS	DAC1	1				k1ix	k1ix1
VIS	IX	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-IX_F0_LVDT_H2_BIAS	DAC1	2				k1ix	k1ix1
VIS	IX	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-IX_F0_LVDT_H3_BIAS	DAC1	3				k1ix	k1ix1
VIS	IX	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-IX_F0_LVDT_V_BIAS	DAC1	4				k1ix	k1ix1
VIS	IX	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-IX_F0_VC_H1_MON	ADC1	5				k1ix	k1ix1
VIS	IX	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-IX_F0_VC_H2_MON	ADC1	6				k1ix	k1ix1
VIS	IX	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-IX_F0_VC_H3_MON	ADC1	7				k1ix	k1ix1
VIS	IX	Pre-Isolator	Voice coil monitor vertical	K1:VIS-IX_F0_VC_V_MON	ADC1	8				k1ix	k1ix1
VIS	IX	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-IX_F0_VC_H1_ACT	DAC1	5				k1ix	k1ix1
VIS	IX	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-IX_F0_VC_H2_ACT	DAC1	6				k1ix	k1ix1
VIS	IX	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-IX_F0_VC_H3_ACT	DAC1	7				k1ix	k1ix1
VIS	IX	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-IX_F0_VC_V_ACT	DAC1	8				k1ix	k1ix1
VIS	IX	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-IX_F0_ACC_H1_SENS	ADC1	9	1			k1ix	k1ix1
VIS	IX	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-IX_F0_ACC_H2_SENS	ADC1	10	1			k1ix	k1ix1
VIS	IX	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-IX_F0_ACC_H3_SENS	ADC1	11	1			k1ix	k1ix1
VIS	IX	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-IX_F0_ACC_V_SENS	ADC1	12	1			k1ix	k1ix1
VIS	IX		spare		ADC1	13				k1ix	k1ix1
VIS	IX		spare		ADC1	14				k1ix	k1ix1
VIS	IX		spare		ADC1	15				k1ix	k1ix1
VIS	IX		spare		ADC1	16				k1ix	k1ix1
VIS	IX	GAS1	LVDT sensor, vertical	K1:VIS-IX_F1_LVDT_V_SENS	ADC1	17				k1ix	k1ix1
VIS	IX	GAS2	LVDT sensor, vertical	K1:VIS-IX_F2_LVDT_V_SENS	ADC1	18				k1ix	k1ix1
VIS	IX	GAS3	LVDT sensor, vertical	K1:VIS-IX_F3_LVDT_V_SENS	ADC1	19				k1ix	k1ix1
VIS	IX	BF	LVDT sensor, vertical	K1:VIS-IX_BF_LVDT_V_SENS	ADC1	20				k1ix	k1ix1
VIS	IX	GAS1	LVDT sensor biasl, vertical	K1:VIS-IX_F1_LVDT_V_BIAS	DAC1	9				k1ix	k1ix1
VIS	IX	GAS2	LVDT sensor biasl, vertical	K1:VIS-IX_F2_LVDT_V_BIAS	DAC1	10				k1ix	k1ix1
VIS	IX	GAS3	LVDT sensor biasl, vertical	K1:VIS-IX_F3_LVDT_V_BIAS	DAC1	11				k1ix	k1ix1
VIS	IX	BF	LVDT sensor biasl, vertical	K1:VIS-IX_BF_LVDT_V_BIAS	DAC1	12				k1ix	k1ix1
VIS	IX	GAS1	Voice coil monitor vertical	K1:VIS-IX_F1_VC_V_MON	ADC1	21				k1ix	k1ix1
VIS	IX	GAS2	Voice coil monitor vertical	K1:VIS-IX_F2_VC_V_MON	ADC1	22				k1ix	k1ix1
VIS	IX	GAS3	Voice coil monitor vertical	K1:VIS-IX_F3_VC_V_MON	ADC1	23				k1ix	k1ix1
VIS	IX	BF	Voice coil monitor vertical	K1:VIS-IX_BF_VC_V_MON	ADC1	24				k1ix	k1ix1
VIS	IX	GAS1	Voice coil actuator, vertical	K1:VIS-IX_F1_VC_V_ACT	DAC1	13				k1ix	k1ix1
VIS	IX	GAS2	Voice coil actuator, vertical	K1:VIS-IX_F2_VC_V_ACT	DAC1	14				k1ix	k1ix1
VIS	IX	GAS3	Voice coil actuator, vertical	K1:VIS-IX_F3_VC_V_ACT	DAC1	15				k1ix	k1ix1
VIS	IX	BF	Voice coil actuator, vertical	K1:VIS-IX_BF_VC_V_ACT	DAC1	16				k1ix	k1ix1

VIS	IX		spare		ADC1	25				k1ix	k1ix1
VIS	IX		spare		ADC1	26				k1ix	k1ix1
VIS	IX		spare		ADC1	27				k1ix	k1ix1
VIS	IX		spare		ADC1	28				k1ix	k1ix1
VIS	IX		spare		ADC1	29				k1ix	k1ix1
VIS	IX		spare		ADC1	30				k1ix	k1ix1
VIS	IX		spare		ADC1	31				k1ix	k1ix1
VIS	IX		reserved for 1PPS		ADC1	32				k1ix	k1ix1
VIS	IX	IM	OSEM sensor, horizontal 1	K1:VIS-IX_IM_H1_SENS	ADC2	1	1			k1ix	k1ix1
VIS	IX	IM	OSEM sensor, horizontal 2	K1:VIS-IX_IM_H2_SENS	ADC2	2	1			k1ix	k1ix1
VIS	IX	IM	OSEM sensor, horizontal 3	K1:VIS-IX_IM_H3_SENS	ADC2	3	1			k1ix	k1ix1
VIS	IX		spare		ADC2	4	1			k1ix	k1ix1
VIS	IX	IM	OSEM sensor, vertical 1	K1:VIS-IX_IM_V1_SENS	ADC2	5	1			k1ix	k1ix1
VIS	IX	IM	OSEM sensor, vertical 2	K1:VIS-IX_IM_V2_SENS	ADC2	6	1			k1ix	k1ix1
VIS	IX	IM	OSEM sensor, vertical 3	K1:VIS-IX_IM_V3_SENS	ADC2	7	1			k1ix	k1ix1
VIS	IX		spare		ADC2	8	1			k1ix	k1ix1
VIS	IX	IM	OSEM actuator, horizontal 1	K1:VIS-IX_IM_H1_ACT	DAC2	1			1	k1ix	k1ix1
VIS	IX	IM	OSEM actuator, horizontal 2	K1:VIS-IX_IM_H2_ACT	DAC2	2			1	k1ix	k1ix1
VIS	IX	IM	OSEM actuator, horizontal 3	K1:VIS-IX_IM_H3_ACT	DAC2	3			1	k1ix	k1ix1
VIS	IX		spare		DAC2	4				k1ix	k1ix1
VIS	IX	IM	OSEM actuator, vertical 1	K1:VIS-IX_IM_V1_ACT	DAC2	5			1	k1ix	k1ix1
VIS	IX	IM	OSEM actuator, vertical 2	K1:VIS-IX_IM_V2_ACT	DAC2	6			1	k1ix	k1ix1
VIS	IX	IM	OSEM actuator, vertical 3	K1:VIS-IX_IM_V3_ACT	DAC2	7			1	k1ix	k1ix1
VIS	IX		spare		DAC2	8				k1ix	k1ix1
VIS	IX	TM	OSEM sensor, horizontal top	K1:VIS-IX_TM_T_SENS	ADC2	9	1			k1ix	k1ix1
VIS	IX	TM	OSEM sensor, horizontal bottom	K2:VIS-IX_TM_B_SENS	ADC2	10	1			k1ix	k1ix1
VIS	IX	TM	OSEM sensor, horizontal right	K3:VIS-IX_TM_R_SENS	ADC2	11	1			k1ix	k1ix1
VIS	IX	TM	OSEM sensor, horizontal left	K4:VIS-IX_TM_L_SENS	ADC2	12	1			k1ix	k1ix1
VIS	IX	TM	OSEM actuator, horizontal top	K1:VIS-IX_TM_T_ACT	DAC2	9			1	k1ix	k1ix1
VIS	IX	TM	OSEM actuator, horizontal bottom	K1:VIS-IX_TM_B_ACT	DAC2	10			1	k1ix	k1ix1
VIS	IX	TM	OSEM actuator, horizontal right	K1:VIS-IX_TM_R_ACT	DAC2	11			1	k1ix	k1ix1
VIS	IX	TM	OSEM actuator, horizontal left	K1:VIS-IX_TM_L_ACT	DAC2	12			1	k1ix	k1ix1
VIS	IX		spare		DAC2	13				k1ix	k1ix1
VIS	IX		spare		DAC2	14				k1ix	k1ix1
VIS	IX		spare		DAC2	15				k1ix	k1ix1
VIS	IX		spare		DAC2	16				k1ix	k1ix1
VIS	IX		spare		ADC2	13				k1ix	k1ix1
VIS	IX		spare		ADC2	14				k1ix	k1ix1
VIS	IX		spare		ADC2	15				k1ix	k1ix1
VIS	IX		spare		ADC2	16				k1ix	k1ix1
VIS	IX	OL	Optical lever	K1:VIS-IX_OL_Q1	ADC2	17	1			k1ix	k1ix1
VIS	IX	OL	Optical lever	K1:VIS-IX_OL_Q2	ADC2	18	1			k1ix	k1ix1
VIS	IX	OL	Optical lever	K1:VIS-IX_OL_Q3	ADC2	19	1			k1ix	k1ix1
VIS	IX	OL	Optical lever	K1:VIS-IX_OL_Q4	ADC2	20	1			k1ix	k1ix1
VIS	IX	SS	Wire position shadow sensor X	K1:VIS-IX_WIRE_X	ADC2	21				k1ix	k1ix1
VIS	IX	SS	Wire position shadow sensor Y	K1:VIS-IX_WIRE_Y	ADC2	22				k1ix	k1ix1
VIS	IX		spare		ADC2	23				k1ix	k1ix1
VIS	IX		spare		ADC2	24				k1ix	k1ix1
VIS	IX		spare		ADC2	25				k1ix	k1ix1
VIS	IX		spare		ADC2	26				k1ix	k1ix1
VIS	IX		spare		ADC2	27				k1ix	k1ix1
VIS	IX		spare		ADC2	28				k1ix	k1ix1
VIS	IX		spare		ADC2	29				k1ix	k1ix1
VIS	IX		spare		ADC2	30				k1ix	k1ix1
VIS	IX		spare		ADC2	31				k1ix	k1ix1
VIS	IX		spare		ADC2	32				k1ix	k1ix1

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISO whitening	Dewhitening	RT model	RT PC name
VIS	IY	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-IY_F0_LVDT_H1_SENS	ADC1	1				k1iy	k1iy1
VIS	IY	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-IY_F0_LVDT_H2_SENS	ADC1	2				k1iy	k1iy1
VIS	IY	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-IY_F0_LVDT_H3_SENS	ADC1	3				k1iy	k1iy1
VIS	IY	Pre-Isolator	LVDT sensor, vertical	K1:VIS-IY_F0_LVDT_V_SENS	ADC1	4				k1iy	k1iy1
VIS	IY	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-IY_F0_LVDT_H1_BIAS	DAC1	1				k1iy	k1iy1
VIS	IY	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-IY_F0_LVDT_H2_BIAS	DAC1	2				k1iy	k1iy1
VIS	IY	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-IY_F0_LVDT_H3_BIAS	DAC1	3				k1iy	k1iy1
VIS	IY	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-IY_F0_LVDT_V_BIAS	DAC1	4				k1iy	k1iy1
VIS	IY	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-IY_F0_VC_H1_MON	ADC1	5				k1iy	k1iy1
VIS	IY	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-IY_F0_VC_H2_MON	ADC1	6				k1iy	k1iy1
VIS	IY	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-IY_F0_VC_H3_MON	ADC1	7				k1iy	k1iy1

VIS	IY	Pre-Isolator	Voice coil monitor vertical	K1:VIS-IY_F0_VC_V_MON	ADC1	8				k1iy	k1iy1
VIS	IY	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-IY_F0_VC_H1_ACT	DAC1	5				k1iy	k1iy1
VIS	IY	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-IY_F0_VC_H2_ACT	DAC1	6				k1iy	k1iy1
VIS	IY	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-IY_F0_VC_H3_ACT	DAC1	7				k1iy	k1iy1
VIS	IY	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-IY_F0_VC_V_ACT	DAC1	8				k1iy	k1iy1
VIS	IY	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-IY_F0_ACC_H1_SENS	ADC1	9	1			k1iy	k1iy1
VIS	IY	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-IY_F0_ACC_H2_SENS	ADC1	10	1			k1iy	k1iy1
VIS	IY	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-IY_F0_ACC_H3_SENS	ADC1	11	1			k1iy	k1iy1
VIS	IY	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-IY_F0_ACC_V_SENS	ADC1	12	1			k1iy	k1iy1
VIS	IY		spare		ADC1	13				k1iy	k1iy1
VIS	IY		spare		ADC1	14				k1iy	k1iy1
VIS	IY		spare		ADC1	15				k1iy	k1iy1
VIS	IY		spare		ADC1	16				k1iy	k1iy1
VIS	IY	GAS1	LVDT sensor, vertical	K1:VIS-IY_F1_LVDT_V_SENS	ADC1	17				k1iy	k1iy1
VIS	IY	GAS2	LVDT sensor, vertical	K1:VIS-IY_F2_LVDT_V_SENS	ADC1	18				k1iy	k1iy1
VIS	IY	GAS3	LVDT sensor, vertical	K1:VIS-IY_F3_LVDT_V_SENS	ADC1	19				k1iy	k1iy1
VIS	IY	BF	LVDT sensor, vertical	K1:VIS-IY_BF_LVDT_V_SENS	ADC1	20				k1iy	k1iy1
VIS	IY	GAS1	LVDT sensor biasl, vertical	K1:VIS-IY_F1_LVDT_V_BIAS	DAC1	9				k1iy	k1iy1
VIS	IY	GAS2	LVDT sensor biasl, vertical	K1:VIS-IY_F2_LVDT_V_BIAS	DAC1	10				k1iy	k1iy1
VIS	IY	GAS3	LVDT sensor biasl, vertical	K1:VIS-IY_F3_LVDT_V_BIAS	DAC1	11				k1iy	k1iy1
VIS	IY	BF	LVDT sensor biasl, vertical	K1:VIS-IY_BF_LVDT_V_BIAS	DAC1	12				k1iy	k1iy1
VIS	IY	GAS1	Voice coil monitor vertical	K1:VIS-IY_F1_VC_V_MON	ADC1	21				k1iy	k1iy1
VIS	IY	GAS2	Voice coil monitor vertical	K1:VIS-IY_F2_VC_V_MON	ADC1	22				k1iy	k1iy1
VIS	IY	GAS3	Voice coil monitor vertical	K1:VIS-IY_F3_VC_V_MON	ADC1	23				k1iy	k1iy1
VIS	IY	BF	Voice coil monitor vertical	K1:VIS-IY_BF_VC_V_MON	ADC1	24				k1iy	k1iy1
VIS	IY	GAS1	Voice coil actuator, vertical	K1:VIS-IY_F1_VC_V_ACT	DAC1	13				k1iy	k1iy1
VIS	IY	GAS2	Voice coil actuator, vertical	K1:VIS-IY_F2_VC_V_ACT	DAC1	14				k1iy	k1iy1
VIS	IY	GAS3	Voice coil actuator, vertical	K1:VIS-IY_F3_VC_V_ACT	DAC1	15				k1iy	k1iy1
VIS	IY	BF	Voice coil actuator, vertical	K1:VIS-IY_BF_VC_V_ACT	DAC1	16				k1iy	k1iy1
VIS	IY		spare		ADC1	25				k1iy	k1iy1
VIS	IY		spare		ADC1	26				k1iy	k1iy1
VIS	IY		spare		ADC1	27				k1iy	k1iy1
VIS	IY		spare		ADC1	28				k1iy	k1iy1
VIS	IY		spare		ADC1	29				k1iy	k1iy1
VIS	IY		spare		ADC1	30				k1iy	k1iy1
VIS	IY		spare		ADC1	31				k1iy	k1iy1
			reserved for 1PPS		ADC1	32				k1iy	k1iy1
VIS	IY	IM	OSEM sensor, horizontal 1	K1:VIS-IY_IM_H1_SENS	ADC2	1	1			k1iy	k1iy1
VIS	IY	IM	OSEM sensor, horizontal 2	K1:VIS-IY_IM_H2_SENS	ADC2	2	1			k1iy	k1iy1
VIS	IY	IM	OSEM sensor, horizontal 3	K1:VIS-IY_IM_H3_SENS	ADC2	3	1			k1iy	k1iy1
VIS	IY		spare		ADC2	4	1			k1iy	k1iy1
VIS	IY	IM	OSEM sensor, vertical 1	K1:VIS-IY_IM_V1_SENS	ADC2	5	1			k1iy	k1iy1
VIS	IY	IM	OSEM sensor, vertical 2	K1:VIS-IY_IM_V2_SENS	ADC2	6	1			k1iy	k1iy1
VIS	IY	IM	OSEM sensor, vertical 3	K1:VIS-IY_IM_V3_SENS	ADC2	7	1			k1iy	k1iy1
VIS	IY		spare		ADC2	8	1			k1iy	k1iy1
VIS	IY	IM	OSEM actuator, horizontal 1	K1:VIS-IY_IM_H1_ACT	DAC2	1			1	k1iy	k1iy1
VIS	IY	IM	OSEM actuator, horizontal 2	K1:VIS-IY_IM_H2_ACT	DAC2	2			1	k1iy	k1iy1
VIS	IY	IM	OSEM actuator, horizontal 3	K1:VIS-IY_IM_H3_ACT	DAC2	3			1	k1iy	k1iy1
VIS	IY		spare		DAC2	4				k1iy	k1iy1
VIS	IY	IM	OSEM actuator, vertical 1	K1:VIS-IY_IM_V1_ACT	DAC2	5			1	k1iy	k1iy1
VIS	IY	IM	OSEM actuator, vertical 2	K1:VIS-IY_IM_V2_ACT	DAC2	6			1	k1iy	k1iy1
VIS	IY	IM	OSEM actuator, vertical 3	K1:VIS-IY_IM_V3_ACT	DAC2	7			1	k1iy	k1iy1
VIS	IY		spare		DAC2	8				k1iy	k1iy1
VIS	IY	TM	OSEM sensor, horizontal top	K1:VIS-IY_TM_T_SENS	ADC2	9	1			k1iy	k1iy1
VIS	IY	TM	OSEM sensor, horizontal bottom	K2:VIS-IY_TM_B_SENS	ADC2	10	1			k1iy	k1iy1
VIS	IY	TM	OSEM sensor, horizontal right	K3:VIS-IY_TM_R_SENS	ADC2	11	1			k1iy	k1iy1
VIS	IY	TM	OSEM sensor, horizontal left	K4:VIS-IY_TM_L_SENS	ADC2	12	1			k1iy	k1iy1
VIS	IY	TM	OSEM actuator, horizontal top	K1:VIS-IY_TM_T_ACT	DAC2	9			1	k1iy	k1iy1
VIS	IY	TM	OSEM actuator, horizontal bottom	K1:VIS-IY_TM_B_ACT	DAC2	10			1	k1iy	k1iy1
VIS	IY	TM	OSEM actuator, horizontal right	K1:VIS-IY_TM_R_ACT	DAC2	11			1	k1iy	k1iy1
VIS	IY	TM	OSEM actuator, horizontal left	K1:VIS-IY_TM_L_ACT	DAC2	12			1	k1iy	k1iy1
VIS	IY		spare		DAC2	13				k1iy	k1iy1
VIS	IY		spare		DAC2	14				k1iy	k1iy1
VIS	IY		spare		DAC2	15				k1iy	k1iy1
VIS	IY		spare		DAC2	16				k1iy	k1iy1
VIS	IY		spare		ADC2	13				k1iy	k1iy1
VIS	IY		spare		ADC2	14				k1iy	k1iy1
VIS	IY		spare		ADC2	15				k1iy	k1iy1
VIS	IY		spare		ADC2	16				k1iy	k1iy1
VIS	IY	OL	Optical lever	K1:VIS-IY_OL_Q1	ADC2	17	1			k1iy	k1iy1
VIS	IY	OL	Optical lever	K1:VIS-IY_OL_Q2	ADC2	18	1			k1iy	k1iy1

VIS	IY	OL	Optical lever	K1:VIS-IY_OL_Q3	ADC2	19	1			k1iy	k1iy1
VIS	IY	OL	Optical lever	K1:VIS-IY_OL_Q4	ADC2	20	1			k1iy	k1iy1
VIS	IY	SS	Wire position shadow sensor X	K1:VIS-IY_WIRE_X	ADC2	21				k1iy	k1iy1
VIS	IY	SS	Wire position shadow sensor Y	K1:VIS-IY_WIRE_Y	ADC2	22				k1iy	k1iy1
VIS	IY		spare		ADC2	23				k1iy	k1iy1
VIS	IY		spare		ADC2	24				k1iy	k1iy1
VIS	IY		spare		ADC2	25				k1iy	k1iy1
VIS	IY		spare		ADC2	26				k1iy	k1iy1
VIS	IY		spare		ADC2	27				k1iy	k1iy1
VIS	IY		spare		ADC2	28				k1iy	k1iy1
VIS	IY		spare		ADC2	29				k1iy	k1iy1
VIS	IY		spare		ADC2	30				k1iy	k1iy1
VIS	IY		spare		ADC2	31				k1iy	k1iy1
VIS	IY		spare		ADC2	32				k1iy	k1iy1

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	Dewhitening	RT model	RT PC name
VIS	EX	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-EX_F0_LVDT_H1_SENS	ADC1	1				k1ex	k1ex1
VIS	EX	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-EX_F0_LVDT_H2_SENS	ADC1	2				k1ex	k1ex1
VIS	EX	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-EX_F0_LVDT_H3_SENS	ADC1	3				k1ex	k1ex1
VIS	EX	Pre-Isolator	LVDT sensor, vertical	K1:VIS-EX_F0_LVDT_V_SENS	ADC1	4				k1ex	k1ex1
VIS	EX	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-EX_F0_LVDT_H1_BIAS	DAC1	1				k1ex	k1ex1
VIS	EX	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-EX_F0_LVDT_H2_BIAS	DAC1	2				k1ex	k1ex1
VIS	EX	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-EX_F0_LVDT_H3_BIAS	DAC1	3				k1ex	k1ex1
VIS	EX	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-EX_F0_LVDT_V_BIAS	DAC1	4				k1ex	k1ex1
VIS	EX	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-EX_F0_VC_H1_MON	ADC1	5				k1ex	k1ex1
VIS	EX	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-EX_F0_VC_H2_MON	ADC1	6				k1ex	k1ex1
VIS	EX	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-EX_F0_VC_H3_MON	ADC1	7				k1ex	k1ex1
VIS	EX	Pre-Isolator	Voice coil monitor vertical	K1:VIS-EX_F0_VC_V_MON	ADC1	8				k1ex	k1ex1
VIS	EX	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-EX_F0_VC_H1_ACT	DAC1	5				k1ex	k1ex1
VIS	EX	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-EX_F0_VC_H2_ACT	DAC1	6				k1ex	k1ex1
VIS	EX	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-EX_F0_VC_H3_ACT	DAC1	7				k1ex	k1ex1
VIS	EX	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-EX_F0_VC_V_ACT	DAC1	8				k1ex	k1ex1
VIS	EX	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-EX_F0_ACC_H1_SENS	ADC1	9	1			k1ex	k1ex1
VIS	EX	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-EX_F0_ACC_H2_SENS	ADC1	10	1			k1ex	k1ex1
VIS	EX	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-EX_F0_ACC_H3_SENS	ADC1	11	1			k1ex	k1ex1
VIS	EX	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-EX_F0_ACC_V_SENS	ADC1	12	1			k1ex	k1ex1
VIS	EX		spare		ADC1	13				k1ex	k1ex1
VIS	EX		spare		ADC1	14				k1ex	k1ex1
VIS	EX		spare		ADC1	15				k1ex	k1ex1
VIS	EX		spare		ADC1	16				k1ex	k1ex1
VIS	EX	GAS1	LVDT sensor, vertical	K1:VIS-EX_F1_LVDT_V_SENS	ADC1	17				k1ex	k1ex1
VIS	EX	GAS2	LVDT sensor, vertical	K1:VIS-EX_F2_LVDT_V_SENS	ADC1	18				k1ex	k1ex1
VIS	EX	GAS3	LVDT sensor, vertical	K1:VIS-EX_F3_LVDT_V_SENS	ADC1	19				k1ex	k1ex1
VIS	EX	BF	LVDT sensor, vertical	K1:VIS-EX_BF_LVDT_V_SENS	ADC1	20				k1ex	k1ex1
VIS	EX	GAS1	LVDT sensor biasl, vertical	K1:VIS-EX_F1_LVDT_V_BIAS	DAC1	9				k1ex	k1ex1
VIS	EX	GAS2	LVDT sensor biasl, vertical	K1:VIS-EX_F2_LVDT_V_BIAS	DAC1	10				k1ex	k1ex1
VIS	EX	GAS3	LVDT sensor biasl, vertical	K1:VIS-EX_F3_LVDT_V_BIAS	DAC1	11				k1ex	k1ex1
VIS	EX	BF	LVDT sensor biasl, vertical	K1:VIS-EX_BF_LVDT_V_BIAS	DAC1	12				k1ex	k1ex1
VIS	EX	GAS1	Voice coil monitor vertical	K1:VIS-EX_F1_VC_V_MON	ADC1	21				k1ex	k1ex1
VIS	EX	GAS2	Voice coil monitor vertical	K1:VIS-EX_F2_VC_V_MON	ADC1	22				k1ex	k1ex1
VIS	EX	GAS3	Voice coil monitor vertical	K1:VIS-EX_F3_VC_V_MON	ADC1	23				k1ex	k1ex1
VIS	EX	BF	Voice coil monitor vertical	K1:VIS-EX_BF_VC_V_MON	ADC1	24				k1ex	k1ex1
VIS	EX	GAS1	Voice coil actuator, vertical	K1:VIS-EX_F1_VC_V_ACT	DAC1	13				k1ex	k1ex1
VIS	EX	GAS2	Voice coil actuator, vertical	K1:VIS-EX_F2_VC_V_ACT	DAC1	14				k1ex	k1ex1
VIS	EX	GAS3	Voice coil actuator, vertical	K1:VIS-EX_F3_VC_V_ACT	DAC1	15				k1ex	k1ex1
VIS	EX	BF	Voice coil actuator, vertical	K1:VIS-EX_BF_VC_V_ACT	DAC1	16				k1ex	k1ex1
VIS	EX		spare		ADC1	25				k1ex	k1ex1
VIS	EX		spare		ADC1	26				k1ex	k1ex1
VIS	EX		spare		ADC1	27				k1ex	k1ex1
VIS	EX		spare		ADC1	28				k1ex	k1ex1
VIS	EX		spare		ADC1	29				k1ex	k1ex1
VIS	EX		spare		ADC1	30				k1ex	k1ex1
VIS	EX		spare		ADC1	31				k1ex	k1ex1
			reserved for 1PPS		ADC1	32				k1ex	k1ex1
VIS	EX	IM	OSEM sensor, horizontal 1	K1:VIS-EX_IM_H1_SENS	ADC2	1	1			k1ex	k1ex1
VIS	EX	IM	OSEM sensor, horizontal 2	K1:VIS-EX_IM_H2_SENS	ADC2	2	1			k1ex	k1ex1
VIS	EX	IM	OSEM sensor, horizontal 3	K1:VIS-EX_IM_H3_SENS	ADC2	3	1			k1ex	k1ex1
VIS	EX		spare		ADC2	4	1			k1ex	k1ex1
VIS	EX	IM	OSEM sensor, vertical 1	K1:VIS-EX_IM_V1_SENS	ADC2	5	1			k1ex	k1ex1



VIS	EX	IM	OSEM sensor, vertical 2	K1:VIS-EX_IM_V2_SENS	ADC2	6	1			k1ex	k1ex1
VIS	EX	IM	OSEM sensor, vertical 3	K1:VIS-EX_IM_V3_SENS	ADC2	7	1			k1ex	k1ex1
VIS	EX		spare		ADC2	8	1			k1ex	k1ex1
VIS	EX	IM	OSEM actuator, horizontal 1	K1:VIS-EX_IM_H1_ACT	DAC2	1			1	k1ex	k1ex1
VIS	EX	IM	OSEM actuator, horizontal 2	K1:VIS-EX_IM_H2_ACT	DAC2	2			1	k1ex	k1ex1
VIS	EX	IM	OSEM actuator, horizontal 3	K1:VIS-EX_IM_H3_ACT	DAC2	3			1	k1ex	k1ex1
VIS	EX		spare		DAC2	4			1	k1ex	k1ex1
VIS	EX	IM	OSEM actuator, vertical 1	K1:VIS-EX_IM_V1_ACT	DAC2	5			1	k1ex	k1ex1
VIS	EX	IM	OSEM actuator, vertical 2	K1:VIS-EX_IM_V2_ACT	DAC2	6			1	k1ex	k1ex1
VIS	EX	IM	OSEM actuator, vertical 3	K1:VIS-EX_IM_V3_ACT	DAC2	7			1	k1ex	k1ex1
VIS	EX		spare		DAC2	8			1	k1ex	k1ex1
VIS	EX	TM	OSEM sensor, horizontal top	K1:VIS-EX_TM_T_SENS	ADC2	9	1			k1ex	k1ex1
VIS	EX	TM	OSEM sensor, horizontal bottom	K2:VIS-EX_TM_B_SENS	ADC2	10	1			k1ex	k1ex1
VIS	EX	TM	OSEM sensor, horizontal right	K3:VIS-EX_TM_R_SENS	ADC2	11	1			k1ex	k1ex1
VIS	EX	TM	OSEM sensor, horizontal left	K4:VIS-EX_TM_L_SENS	ADC2	12	1			k1ex	k1ex1
VIS	EX	TM	OSEM actuator, horizontal top	K1:VIS-EX_TM_T_ACT	DAC2	9			1	k1ex	k1ex1
VIS	EX	TM	OSEM actuator, horizontal bottom	K1:VIS-EX_TM_B_ACT	DAC2	10			1	k1ex	k1ex1
VIS	EX	TM	OSEM actuator, horizontal right	K1:VIS-EX_TM_R_ACT	DAC2	11			1	k1ex	k1ex1
VIS	EX	TM	OSEM actuator, horizontal left	K1:VIS-EX_TM_L_ACT	DAC2	12			1	k1ex	k1ex1
VIS	EX		spare		DAC2	13				k1ex	k1ex1
VIS	EX		spare		DAC2	14				k1ex	k1ex1
VIS	EX		spare		DAC2	15				k1ex	k1ex1
VIS	EX		spare		DAC2	16				k1ex	k1ex1
VIS	EX		spare		ADC2	13				k1ex	k1ex1
VIS	EX		spare		ADC2	14				k1ex	k1ex1
VIS	EX		spare		ADC2	15				k1ex	k1ex1
VIS	EX		spare		ADC2	16				k1ex	k1ex1
VIS	EX	OL	Optical lever	K1:VIS-EX_OL_Q1	ADC2	17	1			k1ex	k1ex1
VIS	EX	OL	Optical lever	K1:VIS-EX_OL_Q2	ADC2	18	1			k1ex	k1ex1
VIS	EX	OL	Optical lever	K1:VIS-EX_OL_Q3	ADC2	19	1			k1ex	k1ex1
VIS	EX	OL	Optical lever	K1:VIS-EX_OL_Q4	ADC2	20	1			k1ex	k1ex1
VIS	EX	SS	Wire position shadow sensor X	K1:VIS-EX_WIRE_X	ADC2	21				k1ex	k1ex1
VIS	EX	SS	Wire position shadow sensor Y	K1:VIS-EX_WIRE_Y	ADC2	22				k1ex	k1ex1
AOS	EX		spare		ADC2	23				k1ex	k1ex1
AOS	EX		spare		ADC2	24				k1ex	k1ex1
AOS	EX		spare		ADC2	25				k1ex	k1ex1
AOS	EX		spare		ADC2	26				k1ex	k1ex1
AOS	EX		spare		ADC2	27				k1ex	k1ex1
AOS	EX		spare		ADC2	28				k1ex	k1ex1
AOS	EX		spare		ADC2	29				k1ex	k1ex1
AOS	EX		spare		ADC2	30				k1ex	k1ex1
AOS	EX		spare		ADC2	31				k1ex	k1ex1
AOS	EX		spare		ADC2	32				k1ex	k1ex1

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	Dewhitening	RT model	RT PC name
VIS	BRTX	TM	OSEM sensor, horizontal UL	K1:VIS-BRTX_TM_UL_SENS	ADC1	1	1			k1brtx	k1trx
VIS	BRTX	TM	OSEM sensor, horizontal UR	K2:VIS-BRTX_TM_UR_SENS	ADC1	2	1			k1brtx	k1trx
VIS	BRTX	TM	OSEM sensor, horizontal LR	K3:VIS-BRTX_TM_LR_SENS	ADC1	3	1			k1brtx	k1trx
VIS	BRTX	TM	OSEM sensor, horizontal LL	K4:VIS-BRTX_TM_LL_SENS	ADC1	4	1			k1brtx	k1trx
VIS	BRTX	TM	OSEM actuator, horizontal UL	K1:VIS-BRTX_TM_UL_ACT	DAC1	1			1	k1brtx	k1trx
VIS	BRTX	TM	OSEM actuator, horizontal UR	K1:VIS-BRTX_TM_UR_ACT	DAC1	2			1	k1brtx	k1trx
VIS	BRTX	TM	OSEM actuator, horizontal LR	K1:VIS-BRTX_TM_LR_ACT	DAC1	3			1	k1brtx	k1trx
VIS	BRTX	TM	OSEM actuator, horizontal LL	K1:VIS-BRTX_TM_LL_ACT	DAC1	4			1	k1brtx	k1trx
VIS	BRTX		spare		DAC1	5				k1brtx	k1trx
VIS	BRTX		spare		DAC1	6				k1brtx	k1trx
VIS	BRTX		spare		DAC1	7				k1brtx	k1trx
VIS	BRTX		spare		DAC1	8				k1brtx	k1trx
VIS	BRTX		spare		DAC1	9				k1brtx	k1trx
VIS	BRTX		spare		DAC1	10				k1brtx	k1trx
VIS	BRTX		spare		DAC1	11				k1brtx	k1trx
VIS	BRTX		spare		DAC1	12				k1brtx	k1trx
VIS	BRTX		spare		DAC1	13				k1brtx	k1trx
VIS	BRTX		spare		DAC1	14				k1brtx	k1trx
VIS	BRTX		spare		DAC1	15				k1brtx	k1trx
VIS	BRTX		spare		DAC1	16				k1brtx	k1trx
VIS	BRTX	OL	Optical lever	K1:VIS-BRTX_OL_Q1	ADC1	5	1			k1brtx	k1trx
VIS	BRTX	OL	Optical lever	K1:VIS-BRTX_OL_Q2	ADC1	6	1			k1brtx	k1trx
VIS	BRTX	OL	Optical lever	K1:VIS-BRTX_OL_Q3	ADC1	7	1			k1brtx	k1trx
VIS	BRTX	OL	Optical lever	K1:VIS-BRTX_OL_Q4	ADC1	8	1			k1brtx	k1trx

VIS	BRTX	SS	Wire position shadow sensor X	K1:VIS-BRTX_WIRE_X	ADC1	9			k1brtx	k1trx
VIS	BRTX	SS	Wire position shadow sensor Y	K1:VIS-BRTX_WIRE_Y	ADC1	10			k1brtx	k1trx
VIS	BRTX		spare		ADC1	11			k1brtx	k1trx
VIS	BRTX		spare		ADC1	12			k1brtx	k1trx
VIS	BRTX		spare		ADC1	13			k1brtx	k1trx
VIS	BRTX		spare		ADC1	14			k1brtx	k1trx
VIS	BRTX		spare		ADC1	15			k1brtx	k1trx
VIS	BRTX		spare		ADC1	16			k1brtx	k1trx
VIS	BRTX		spare		ADC1	17			k1brtx	k1trx
VIS	BRTX		spare		ADC1	18			k1brtx	k1trx
VIS	BRTX		spare		ADC1	19			k1brtx	k1trx
VIS	BRTX		spare		ADC1	20			k1brtx	k1trx
VIS	BRTX		spare		ADC1	21			k1brtx	k1trx
VIS	BRTX		spare		ADC1	22			k1brtx	k1trx
VIS	BRTX		spare		ADC1	23			k1brtx	k1trx
VIS	BRTX		spare		ADC1	24			k1brtx	k1trx
VIS	BRTX		spare		ADC1	25			k1brtx	k1trx
VIS	BRTX		spare		ADC1	26			k1brtx	k1trx
VIS	BRTX		spare		ADC1	27			k1brtx	k1trx
VIS	BRTX		spare		ADC1	28			k1brtx	k1trx
VIS	BRTX		spare		ADC1	29			k1brtx	k1trx
VIS	BRTX		spare		ADC1	30			k1brtx	k1trx
VIS	BRTX		spare		ADC1	31			k1brtx	k1trx
VIS	BRTX		reserved for 1PPS		ADC1	32			k1brtx	k1trx
MIF	TRX	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRX_QPD1_LG_Q1	ADC2	1	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRX_QPD1_LG_Q2	ADC2	2	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRX_QPD1_LG_Q3	ADC2	3	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRX_QPD1_LG_Q4	ADC2	4	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRX_QPD1_HG_Q1	ADC2	5	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRX_QPD1_HG_Q2	ADC2	6	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRX_QPD1_HG_Q3	ADC2	7	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRX_QPD1_HG_Q4	ADC2	8	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRX_QPD1_GR_Q1	ADC2	9	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRX_QPD1_GR_Q2	ADC2	10	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRX_QPD1_GR_Q3	ADC2	11	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRX_QPD1_GR_Q4	ADC2	12	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRX_QPD2_LG_Q1	ADC2	13	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRX_QPD2_LG_Q2	ADC2	14	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRX_QPD2_LG_Q3	ADC2	15	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRX_QPD2_LG_Q4	ADC2	16	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRX_QPD2_HG_Q1	ADC2	17	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRX_QPD2_HG_Q2	ADC2	18	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRX_QPD2_HG_Q3	ADC2	19	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRX_QPD2_HG_Q4	ADC2	20	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRX_QPD2_GR_Q1	ADC2	21	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRX_QPD2_GR_Q2	ADC2	22	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRX_QPD2_GR_Q3	ADC2	23	1		TRX	k1trx
MIF	TRX	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRX_QPD2_GR_Q4	ADC2	24	1		TRX	k1trx
MIF	TRX		spare		ADC2	25			TRX	k1trx
MIF	TRX		spare		ADC2	26			TRX	k1trx
MIF	TRX		spare		ADC2	27			TRX	k1trx
MIF	TRX		spare		ADC2	28			TRX	k1trx
MIF	TRX		spare		ADC2	29			TRX	k1trx
MIF	TRX		spare		ADC2	30			TRX	k1trx
MIF	TRX		spare		ADC2	31			TRX	k1trx
MIF	TRX		spare		ADC2	32			TRX	k1trx

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISO whitening	Dewhitening	RT model	RT PC name
VIS	EY	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-EY_F0_LVDT_H1_SENS	ADC1	1				k1ey	k1ey1
VIS	EY	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-EY_F0_LVDT_H2_SENS	ADC1	2				k1ey	k1ey1
VIS	EY	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-EY_F0_LVDT_H3_SENS	ADC1	3				k1ey	k1ey1
VIS	EY	Pre-Isolator	LVDT sensor, vertical	K1:VIS-EY_F0_LVDT_V_SENS	ADC1	4				k1ey	k1ey1
VIS	EY	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-EY_F0_LVDT_H1_BIAS	DAC1	1				k1ey	k1ey1
VIS	EY	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-EY_F0_LVDT_H2_BIAS	DAC1	2				k1ey	k1ey1
VIS	EY	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-EY_F0_LVDT_H3_BIAS	DAC1	3				k1ey	k1ey1
VIS	EY	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-EY_F0_LVDT_V_BIAS	DAC1	4				k1ey	k1ey1
VIS	EY	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-EY_F0_VC_H1_MON	ADC1	5				k1ey	k1ey1
VIS	EY	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-EY_F0_VC_H2_MON	ADC1	6				k1ey	k1ey1

VIS	EY	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-EY_F0_VC_H3_MON	ADC1	7				k1ey	k1ey1
VIS	EY	Pre-Isolator	Voice coil monitor vertical	K1:VIS-EY_F0_VC_V_MON	ADC1	8				k1ey	k1ey1
VIS	EY	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-EY_F0_VC_H1_ACT	DAC1	5			1	k1ey	k1ey1
VIS	EY	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-EY_F0_VC_H2_ACT	DAC1	6			1	k1ey	k1ey1
VIS	EY	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-EY_F0_VC_H3_ACT	DAC1	7			1	k1ey	k1ey1
VIS	EY	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-EY_F0_VC_V_ACT	DAC1	8			1	k1ey	k1ey1
VIS	EY	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-EY_F0_ACC_H1_SENS	ADC1	9	1			k1ey	k1ey1
VIS	EY	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-EY_F0_ACC_H2_SENS	ADC1	10	1			k1ey	k1ey1
VIS	EY	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-EY_F0_ACC_H3_SENS	ADC1	11	1			k1ey	k1ey1
VIS	EY	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-EY_F0_ACC_V_SENS	ADC1	12	1			k1ey	k1ey1
VIS	EY		spare		ADC1	13				k1ey	k1ey1
VIS	EY		spare		ADC1	14				k1ey	k1ey1
VIS	EY		spare		ADC1	15				k1ey	k1ey1
VIS	EY		spare		ADC1	16				k1ey	k1ey1
VIS	EY	GAS1	LVDT sensor, vertical	K1:VIS-EY_F1_LVDT_V_SENS	ADC1	17				k1ey	k1ey1
VIS	EY	GAS2	LVDT sensor, vertical	K1:VIS-EY_F2_LVDT_V_SENS	ADC1	18				k1ey	k1ey1
VIS	EY	GAS3	LVDT sensor, vertical	K1:VIS-EY_F3_LVDT_V_SENS	ADC1	19				k1ey	k1ey1
VIS	EY	BF	LVDT sensor, vertical	K1:VIS-EY_BF_LVDT_V_SENS	ADC1	20				k1ey	k1ey1
VIS	EY	GAS1	LVDT sensor biasl, vertical	K1:VIS-EY_F1_LVDT_V_BIAS	DAC1	9				k1ey	k1ey1
VIS	EY	GAS2	LVDT sensor biasl, vertical	K1:VIS-EY_F2_LVDT_V_BIAS	DAC1	10				k1ey	k1ey1
VIS	EY	GAS3	LVDT sensor biasl, vertical	K1:VIS-EY_F3_LVDT_V_BIAS	DAC1	11				k1ey	k1ey1
VIS	EY	BF	LVDT sensor biasl, vertical	K1:VIS-EY_BF_LVDT_V_BIAS	DAC1	12				k1ey	k1ey1
VIS	EY	GAS1	Voice coil monitor vertical	K1:VIS-EY_F1_VC_V_MON	ADC1	21				k1ey	k1ex1
VIS	EY	GAS2	Voice coil monitor vertical	K1:VIS-EY_F2_VC_V_MON	ADC1	22				k1ey	k1ex1
VIS	EY	GAS3	Voice coil monitor vertical	K1:VIS-EY_F3_VC_V_MON	ADC1	23				k1ey	k1ex1
VIS	EY	BF	Voice coil monitor vertical	K1:VIS-EY_BF_VC_V_MON	ADC1	24				k1ey	k1ex1
VIS	EY	GAS1	Voice coil actuator, vertical	K1:VIS-EY_F1_VC_V_ACT	DAC1	13			1	k1ey	k1ey1
VIS	EY	GAS2	Voice coil actuator, vertical	K1:VIS-EY_F2_VC_V_ACT	DAC1	14			1	k1ey	k1ey1
VIS	EY	GAS3	Voice coil actuator, vertical	K1:VIS-EY_F3_VC_V_ACT	DAC1	15			1	k1ey	k1ey1
VIS	EY	BF	Voice coil actuator, vertical	K1:VIS-EY_BF_VC_V_ACT	DAC1	16			1	k1ey	k1ey1
VIS	EY		spare		ADC1	25				k1ey	k1ey1
VIS	EY		spare		ADC1	26				k1ey	k1ey1
VIS	EY		spare		ADC1	27				k1ey	k1ey1
VIS	EY		spare		ADC1	28				k1ey	k1ey1
VIS	EY		spare		ADC1	29				k1ey	k1ey1
VIS	EY		spare		ADC1	30				k1ey	k1ey1
VIS	EY		spare		ADC1	31				k1ey	k1ey1
VIS	EY		reserved for 1PPS		ADC1	32				k1ey	k1ey1
VIS	EY	IM	OSEM sensor, horizontal 1	K1:VIS-EY_IM_H1_SENS	ADC2	1	1			k1ey	k1ey1
VIS	EY	IM	OSEM sensor, horizontal 2	K1:VIS-EY_IM_H2_SENS	ADC2	2	1			k1ey	k1ey1
VIS	EY	IM	OSEM sensor, horizontal 3	K1:VIS-EY_IM_H3_SENS	ADC2	3	1			k1ey	k1ey1
VIS	EY		spare		ADC2	4	1			k1ey	k1ey1
VIS	EY	IM	OSEM sensor, vertical 1	K1:VIS-EY_IM_V1_SENS	ADC2	5	1			k1ey	k1ey1
VIS	EY	IM	OSEM sensor, vertical 2	K1:VIS-EY_IM_V2_SENS	ADC2	6	1			k1ey	k1ey1
VIS	EY	IM	OSEM sensor, vertical 3	K1:VIS-EY_IM_V3_SENS	ADC2	7	1			k1ey	k1ey1
VIS	EY		spare		ADC2	8	1			k1ey	k1ey1
VIS	EY	IM	OSEM actuator, horizontal 1	K1:VIS-EY_IM_H1_ACT	DAC2	1			1	k1ey	k1ey1
VIS	EY	IM	OSEM actuator, horizontal 2	K1:VIS-EY_IM_H2_ACT	DAC2	2			1	k1ey	k1ey1
VIS	EY	IM	OSEM actuator, horizontal 3	K1:VIS-EY_IM_H3_ACT	DAC2	3			1	k1ey	k1ey1
VIS	EY		spare		DAC2	4				k1ey	k1ey1
VIS	EY	IM	OSEM actuator, vertical 1	K1:VIS-EY_IM_V1_ACT	DAC2	5			1	k1ey	k1ey1
VIS	EY	IM	OSEM actuator, vertical 2	K1:VIS-EY_IM_V2_ACT	DAC2	6			1	k1ey	k1ey1
VIS	EY	IM	OSEM actuator, vertical 3	K1:VIS-EY_IM_V3_ACT	DAC2	7			1	k1ey	k1ey1
VIS	EY		spare		DAC2	8				k1ey	k1ey1
VIS	EY	TM	OSEM sensor, horizontal top	K1:VIS-EY_TM_T_SENS	ADC2	9	1			k1ey	k1ey1
VIS	EY	TM	OSEM sensor, horizontal bottom	K2:VIS-EY_TM_B_SENS	ADC2	10	1			k1ey	k1ey1
VIS	EY	TM	OSEM sensor, horizontal right	K3:VIS-EY_TM_R_SENS	ADC2	11	1			k1ey	k1ey1
VIS	EY	TM	OSEM sensor, horizontal left	K4:VIS-EY_TM_L_SENS	ADC2	12	1			k1ey	k1ey1
VIS	EY	TM	OSEM actuator, horizontal top	K1:VIS-EY_TM_T_ACT	DAC2	9			1	k1ey	k1ey1
VIS	EY	TM	OSEM actuator, horizontal bottom	K1:VIS-EY_TM_B_ACT	DAC2	10			1	k1ey	k1ey1
VIS	EY	TM	OSEM actuator, horizontal right	K1:VIS-EY_TM_R_ACT	DAC2	11			1	k1ey	k1ey1
VIS	EY	TM	OSEM actuator, horizontal left	K1:VIS-EY_TM_L_ACT	DAC2	12			1	k1ey	k1ey1
VIS	EY		spare		DAC2	13				k1ey	k1ey1
VIS	EY		spare		DAC2	14				k1ey	k1ey1
VIS	EY		spare		DAC2	15				k1ey	k1ey1
VIS	EY		spare		DAC2	16				k1ey	k1ey1
VIS	EY		spare		ADC2	13				k1ey	k1ey1
VIS	EY		spare		ADC2	14				k1ey	k1ey1
VIS	EY		spare		ADC2	15				k1ey	k1ey1
VIS	EY		spare		ADC2	16				k1ey	k1ey1
VIS	EY	OL	Optical lever	K1:VIS-EY_OL_Q1	ADC2	17	1			k1ey	k1ey1

VIS	EY	OL	Optical lever	K1:VIS-EY_OL_Q2	ADC2	18	1			k1ey	k1ey1
VIS	EY	OL	Optical lever	K1:VIS-EY_OL_Q3	ADC2	19	1			k1ey	k1ey1
VIS	EY	OL	Optical lever	K1:VIS-EY_OL_Q4	ADC2	20	1			k1ey	k1ey1
VIS	EY	SS	Wire position shadow sensor X	K1:VIS-EY_WIRE_X	ADC2	21	1			k1ey	k1ey1
VIS	EY	SS	Wire position shadow sensor Y	K1:VIS-EY_WIRE_Y	ADC2	22	1			k1ey	k1ey1
VIS	EY		spare		ADC2	23	1			k1ey	k1ey1
VIS	EY		spare		ADC2	24	1			k1ey	k1ey1
AOS	EY		spare		ADC2	25				k1ey	k1ey1
AOS	EY		spare		ADC2	26				k1ey	k1ey1
AOS	EY		spare		ADC2	27				k1ey	k1ey1
AOS	EY		spare		ADC2	28				k1ey	k1ey1
AOS	EY		spare		ADC2	29				k1ey	k1ey1
AOS	EY		spare		ADC2	30				k1ey	k1ey1
AOS	EY		spare		ADC2	31				k1ey	k1ey1
AOS	EY		spare		ADC2	32				k1ey	k1ey1

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISG whitening	Dewhitening	RT model	RT PC name
VIS	BRTY	TM	OSEM sensor, horizontal UL	K1:VIS-BRTY_TM_UL_SENS	ADC1	1	1			k1brty	k1try
VIS	BRTY	TM	OSEM sensor, horizontal UR	K2:VIS-BRTY_TM_UR_SENS	ADC1	2	1			k1brty	k1try
VIS	BRTY	TM	OSEM sensor, horizontal LR	K3:VIS-BRTY_TM_LR_SENS	ADC1	3	1			k1brty	k1try
VIS	BRTY	TM	OSEM sensor, horizontal LL	K4:VIS-BRTY_TM_LL_SENS	ADC1	4	1			k1brty	k1try
VIS	BRTY	TM	OSEM actuator, horizontal UL	K1:VIS-BRTY_TM_UL_ACT	DAC1	1			1	k1brty	k1try
VIS	BRTY	TM	OSEM actuator, horizontal UR	K1:VIS-BRTY_TM_UR_ACT	DAC1	2			1	k1brty	k1try
VIS	BRTY	TM	OSEM actuator, horizontal LR	K1:VIS-BRTY_TM_LR_ACT	DAC1	3			1	k1brty	k1try
VIS	BRTY	TM	OSEM actuator, horizontal LL	K1:VIS-BRTY_TM_LL_ACT	DAC1	4			1	k1brty	k1try
VIS	BRTY		spare		DAC1	5				k1brty	k1try
VIS	BRTY		spare		DAC1	6				k1brty	k1try
VIS	BRTY		spare		DAC1	7				k1brty	k1try
VIS	BRTY		spare		DAC1	8				k1brty	k1try
VIS	BRTY		spare		DAC1	9				k1brty	k1try
VIS	BRTY		spare		DAC1	10				k1brty	k1try
VIS	BRTY		spare		DAC1	11				k1brty	k1try
VIS	BRTY		spare		DAC1	12				k1brty	k1try
VIS	BRTY		spare		DAC1	13				k1brty	k1try
VIS	BRTY		spare		DAC1	14				k1brty	k1try
VIS	BRTY		spare		DAC1	15				k1brty	k1try
VIS	BRTY		spare		DAC1	16				k1brty	k1try
VIS	BRTY	OL	Optical lever	K1:VIS-BRTY_OL_Q1	ADC1	5	1			k1brty	k1try
VIS	BRTY	OL	Optical lever	K1:VIS-BRTY_OL_Q2	ADC1	6	1			k1brty	k1try
VIS	BRTY	OL	Optical lever	K1:VIS-BRTY_OL_Q3	ADC1	7	1			k1brty	k1try
VIS	BRTY	OL	Optical lever	K1:VIS-BRTY_OL_Q4	ADC1	8	1			k1brty	k1try
VIS	BRTY	SS	Wire position shadow sensor X	K1:VIS-BRTY_WIRE_X	ADC1	9				k1brty	k1try
VIS	BRTY	SS	Wire position shadow sensor Y	K1:VIS-BRTY_WIRE_Y	ADC1	10				k1brty	k1try
VIS	BRTY		spare		ADC1	11				k1brty	k1try
VIS	BRTY		spare		ADC1	12				k1brty	k1try
VIS	BRTY		spare		ADC1	13				k1brty	k1try
VIS	BRTY		spare		ADC1	14				k1brty	k1try
VIS	BRTY		spare		ADC1	15				k1brty	k1try
VIS	BRTY		spare		ADC1	16				k1brty	k1try
VIS	BRTY		spare		ADC1	17				k1brty	k1try
VIS	BRTY		spare		ADC1	18				k1brty	k1try
VIS	BRTY		spare		ADC1	19				k1brty	k1try
VIS	BRTY		spare		ADC1	20				k1brty	k1try
VIS	BRTY		spare		ADC1	21				k1brty	k1try
VIS	BRTY		spare		ADC1	22				k1brty	k1try
VIS	BRTY		spare		ADC1	23				k1brty	k1try
VIS	BRTY		spare		ADC1	24				k1brty	k1try
VIS	BRTY		spare		ADC1	25				k1brty	k1try
VIS	BRTY		spare		ADC1	26				k1brty	k1try
VIS	BRTY		spare		ADC1	27				k1brty	k1try
VIS	BRTY		spare		ADC1	28				k1brty	k1try
VIS	BRTY		spare		ADC1	29				k1brty	k1try
VIS	BRTY		spare		ADC1	30				k1brty	k1try
VIS	BRTY		spare		ADC1	31				k1brty	k1try
VIS	BRTY		reserved for 1PPS		ADC1	32				k1brty	k1try
MIF	TRY	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRY_QPD1_LG_Q1	ADC3	1		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRY_QPD1_LG_Q2	ADC3	2		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRY_QPD1_LG_Q3	ADC3	3		1		k1try	k1try

MIF	TRY	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRY_QPD1_LG_Q4	ADC3	4		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRY_QPD1_HG_Q1	ADC3	5		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRY_QPD1_HG_Q2	ADC3	6		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRY_QPD1_HG_Q3	ADC3	7		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRY_QPD1_HG_Q4	ADC3	8		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRY_QPD1_GR_Q1	ADC3	9		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRY_QPD1_GR_Q2	ADC3	10		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRY_QPD1_GR_Q3	ADC3	11		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRY_QPD1_GR_Q4	ADC3	12		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRY_QPD2_LG_Q1	ADC3	13		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRY_QPD2_LG_Q2	ADC3	14		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRY_QPD2_LG_Q3	ADC3	15		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRY_QPD2_LG_Q4	ADC3	16		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRY_QPD2_HG_Q1	ADC3	17		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRY_QPD2_HG_Q2	ADC3	18		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRY_QPD2_HG_Q3	ADC3	19		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRY_QPD2_HG_Q4	ADC3	20		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRY_QPD2_GR_Q1	ADC3	21		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRY_QPD2_GR_Q2	ADC3	22		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRY_QPD2_GR_Q3	ADC3	23		1		k1try	k1try
MIF	TRY	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRY_QPD2_GR_Q4	ADC3	24		1		k1try	k1try
MIF	TRY		spare		ADC3	25				k1try	k1try
MIF	TRY		spare		ADC3	26				k1try	k1try
MIF	TRY		spare		ADC3	27				k1try	k1try
MIF	TRY		spare		ADC3	28				k1try	k1try
MIF	TRY		spare		ADC3	29				k1try	k1try
MIF	TRY		spare		ADC3	30				k1try	k1try
MIF	TRY		spare		ADC3	31				k1try	k1try
MIF	TRY		spare		ADC3	32				k1try	k1try

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	Dewhitening	RT model	RT PC name
MIF	AS	RF PD	f1 high gain I-phase	K1:LSC-AS_F1_HG_I	ADC1	1		1		k1lsc	k1lsc
MIF	AS	RF PD	f1 high gain Q-phase	K1:LSC-AS_F1_HG_Q	ADC1	2		1		k1lsc	k1lsc
MIF	AS	RF PD	f1 low gain I-phase	K1:LSC-AS_F1_LG_I	ADC1	3		1		k1lsc	k1lsc
MIF	AS	RF PD	f1 low gain Q-phase	K1:LSC-AS_F1_LG_Q	ADC1	4		1		k1lsc	k1lsc
MIF	AS	RF PD	f1 high gain DC	K1:LSC-AS_F1_HG_DC	ADC1	5				k1lsc	k1lsc
MIF	AS	RF PD	f1 low gain DC	K1:LSC-AS_F1_LG_DC	ADC1	6				k1lsc	k1lsc
MIF	AS		spare		ADC1	7				k1lsc	k1lsc
MIF	AS		spare		ADC1	8				k1lsc	k1lsc
MIF	OMC	DC PD	OMC Transmission High gain	K1:LSC-OMCT_HG_DC	ADC1	9		1		k1lsc	k1lsc
MIF	OMC	DC PD	OMC Transmission Low gain	K1:LSC-OMCT_LG_DC	ADC1	10		1		k1lsc	k1lsc
MIF	AS		spare		ADC1	11				k1lsc	k1lsc
MIF	AS		spare		ADC1	12				k1lsc	k1lsc
MIF	REFL	RF PD	f1 high gain I-phase	K1:LSC-REFL_F1_HG_I	ADC1	13		1		k1lsc	k1lsc
MIF	REFL	RF PD	f1 high gain Q-phase	K1:LSC-REFL_F1_HG_Q	ADC1	14		1		k1lsc	k1lsc
MIF	REFL	RF PD	f1 low gain I-phase	K1:LSC-REFL_F1_LG_I	ADC1	15		1		k1lsc	k1lsc
MIF	REFL	RF PD	f1 low gain Q-phase	K1:LSC-REFL_F1_LG_Q	ADC1	16		1		k1lsc	k1lsc
MIF	REFL	RF PD	f2 high gain I-phase	K1:LSC-REFL_F2_HG_I	ADC1	17		1		k1lsc	k1lsc
MIF	REFL	RF PD	f2 high gain Q-phase	K1:LSC-REFL_F2_HG_Q	ADC1	18		1		k1lsc	k1lsc
MIF	REFL	RF PD	f2 low gain I-phase	K1:LSC-REFL_F2_LG_I	ADC1	19		1		k1lsc	k1lsc
MIF	REFL	RF PD	f2 low gain Q-phase	K1:LSC-REFL_F2_LG_Q	ADC1	20		1		k1lsc	k1lsc
MIF	REFL	RF PD	f1 high gain DC	K1:LSC-REFL_F1_HG_DC	ADC1	21				k1lsc	k1lsc
MIF	REFL	RF PD	f1 low gain DC	K1:LSC-REFL_F1_LG_DC	ADC1	22				k1lsc	k1lsc
MIF	REFL	RF PD	f2 high gain DC	K1:LSC-REFL_F2_HG_DC	ADC1	23				k1lsc	k1lsc
MIF	REFL	RF PD	f2 low gain DC	K1:LSC-REFL_F2_LG_DC	ADC1	24				k1lsc	k1lsc
MIF	REFL	RF PD	f3-f1 I-phase	K1:LSC-REFL_F1F3_I	ADC1	25		1		k1lsc	k1lsc
MIF	REFL	RF PD	f3-f1 Q-phase	K1:LSC-REFL_F1F3_Q	ADC1	26		1		k1lsc	k1lsc
MIF	REFL	RF PD	f2-f1 I-phase	K1:LSC-REFL_F1F2_I	ADC1	27		1		k1lsc	k1lsc
MIF	REFL	RF PD	f2-f1 Q-phase	K1:LSC-REFL_F1F2_Q	ADC1	28		1		k1lsc	k1lsc
MIF	REFL	RF PD	f3-f1 DC	K1:LSC-REFL_F1F3_DC	ADC1	29				k1lsc	k1lsc
MIF	REFL	RF PD	f2-f1 DC	K1:LSC-REFL_F1F2_DC	ADC1	30				k1lsc	k1lsc
MIF	AS		spare		ADC1	31				k1lsc	k1lsc
MIF	AS		reserved for 1PPS		ADC1	32				k1lsc	k1lsc
MIF	POX	RF PD	f1 high gain I-phase	K1:LSC-POX_F1_HG_I	ADC2	1		1		k1lsc	k1lsc
MIF	POX	RF PD	f1 high gain Q-phase	K1:LSC-POX_F1_HG_Q	ADC2	2		1		k1lsc	k1lsc
MIF	POX	RF PD	f1 low gain I-phase	K1:LSC-POX_F1_LG_I	ADC2	3		1		k1lsc	k1lsc
MIF	POX	RF PD	f1 low gain Q-phase	K1:LSC-POX_F1_LG_Q	ADC2	4		1		k1lsc	k1lsc
MIF	POX	RF PD	f2 high gain I-phase	K1:LSC-POX_F2_HG_I	ADC2	5		1		k1lsc	k1lsc

MIF	POX	RF PD	f2 high gain Q-phase	K1:LSC-POX_F2_HG_Q	ADC2	6		1	k1lsc	k1lsc
MIF	POX	RF PD	f2 low gain I-phase	K1:LSC-POX_F2_LG_I	ADC2	7		1	k1lsc	k1lsc
MIF	POX	RF PD	f2 low gain Q-phase	K1:LSC-POX_F2_LG_Q	ADC2	8		1	k1lsc	k1lsc
MIF	POX	RF PD	f1 high gain DC	K1:LSC-POX_F1_HG_DC	ADC2	9			k1lsc	k1lsc
MIF	POX	RF PD	f1 low gain DC	K1:LSC-POX_F1_LG_DC	ADC2	10			k1lsc	k1lsc
MIF	POX	RF PD	f2 high gain DC	K1:LSC-POX_F2_HG_DC	ADC2	11			k1lsc	k1lsc
MIF	POX	RF PD	f2 low gain DC	K1:LSC-POX_F2_LG_DC	ADC2	12			k1lsc	k1lsc
MIF	POX		spare		ADC2	13			k1lsc	k1lsc
MIF	POX		spare		ADC2	14			k1lsc	k1lsc
MIF	POX		spare		ADC2	15			k1lsc	k1lsc
MIF	POX		spare		ADC2	16			k1lsc	k1lsc
MIF	POY	RF PD	f1 high gain I-phase	K1:LSC-POY_F1_HG_I	ADC2	17		1	k1lsc	k1lsc
MIF	POY	RF PD	f1 high gain Q-phase	K1:LSC-POY_F1_HG_Q	ADC2	18		1	k1lsc	k1lsc
MIF	POY	RF PD	f1 low gain I-phase	K1:LSC-POY_F1_LG_I	ADC2	19		1	k1lsc	k1lsc
MIF	POY	RF PD	f1 low gain Q-phase	K1:LSC-POY_F1_LG_Q	ADC2	20		1	k1lsc	k1lsc
MIF	POY	RF PD	f2 high gain I-phase	K1:LSC-POY_F2_HG_I	ADC2	21		1	k1lsc	k1lsc
MIF	POY	RF PD	f2 high gain Q-phase	K1:LSC-POY_F2_HG_Q	ADC2	22		1	k1lsc	k1lsc
MIF	POY	RF PD	f2 low gain I-phase	K1:LSC-POY_F2_LG_I	ADC2	23		1	k1lsc	k1lsc
MIF	POY	RF PD	f2 low gain Q-phase	K1:LSC-POY_F2_LG_Q	ADC2	24		1	k1lsc	k1lsc
MIF	POY	RF PD	f1 high gain DC	K1:LSC-POY_F1_HG_DC	ADC2	25			k1lsc	k1lsc
MIF	POY	RF PD	f1 low gain DC	K1:LSC-POY_F1_LG_DC	ADC2	26			k1lsc	k1lsc
MIF	POY	RF PD	f2 high gain DC	K1:LSC-POY_F2_HG_DC	ADC2	27			k1lsc	k1lsc
MIF	POY	RF PD	f2 low gain DC	K1:LSC-POY_F2_LG_DC	ADC2	28			k1lsc	k1lsc
MIF	POY		spare		ADC2	29			k1lsc	k1lsc
MIF	POY		spare		ADC2	30			k1lsc	k1lsc
MIF	POY		spare		ADC2	31			k1lsc	k1lsc
MIF	POY		spare		ADC2	32			k1lsc	k1lsc
MIF	POP	RF PD	f1 high gain I-phase	K1:LSC-POP_F1_HG_I	ADC3	1		1	k1lsc	k1lsc
MIF	POP	RF PD	f1 high gain Q-phase	K1:LSC-POP_F1_HG_Q	ADC3	2		1	k1lsc	k1lsc
MIF	POP	RF PD	f1 low gain I-phase	K1:LSC-POP_F1_LG_I	ADC3	3		1	k1lsc	k1lsc
MIF	POP	RF PD	f1 low gain Q-phase	K1:LSC-POP_F1_LG_Q	ADC3	4		1	k1lsc	k1lsc
MIF	POP	RF PD	f2 high gain I-phase	K1:LSC-POP_F2_HG_I	ADC3	5		1	k1lsc	k1lsc
MIF	POP	RF PD	f2 high gain Q-phase	K1:LSC-POP_F2_HG_Q	ADC3	6		1	k1lsc	k1lsc
MIF	POP	RF PD	f2 low gain I-phase	K1:LSC-POP_F2_LG_I	ADC3	7		1	k1lsc	k1lsc
MIF	POP	RF PD	f2 low gain Q-phase	K1:LSC-POP_F2_LG_Q	ADC3	8		1	k1lsc	k1lsc
MIF	POP	RF PD	f1 high gain DC	K1:LSC-POP_F1_HG_DC	ADC3	9			k1lsc	k1lsc
MIF	POP	RF PD	f1 low gain DC	K1:LSC-POP_F1_LG_DC	ADC3	10			k1lsc	k1lsc
MIF	POP	RF PD	f2 high gain DC	K1:LSC-POP_F2_HG_DC	ADC3	11			k1lsc	k1lsc
MIF	POP	RF PD	f2 low gain DC	K1:LSC-POP_F2_LG_DC	ADC3	12			k1lsc	k1lsc
MIF	SPOP	RF PD	SB Power in PRC f1 I-phase	K1:LSC-SPOP_F1_I	ADC3	13		1	k1lsc	k1lsc
MIF	SPOP	RF PD	SB Power in PRC f1 Q-phase	K1:LSC-SPOP_F1_Q	ADC3	14		1	k1lsc	k1lsc
MIF	SPOP	RF PD	SB Power in PRC f2 I-phase	K1:LSC-SPOP_F2_I	ADC3	15		1	k1lsc	k1lsc
MIF	SPOP	RF PD	SB Power in PRC f2 Q-phase	K1:LSC-SPOP_F2_Q	ADC3	16		1	k1lsc	k1lsc
MIF	SPOP	RF PD	SB Power in PRC f1 DC	K1:LSC-SPOP_F1_DC	ADC3	21			k1lsc	k1lsc
MIF	SPOP	RF PD	SB Power in PRC f2 DC	K1:LSC-SPOP_F2_DC	ADC3	22			k1lsc	k1lsc
MIF	POP	RF PD	Green lock DC	K1:LSC-POP_GR1_DC	ADC3	23			k1lsc	k1lsc
MIF	POP		spare		ADC3	24			k1lsc	k1lsc
MIF	SPOS	RF PD	SB Power in PRC f1 I-phase	K1:LSC-SPOS_F1_I	ADC3	25		1	k1lsc	k1lsc
MIF	SPOS	RF PD	SB Power in PRC f1 Q-phase	K1:LSC-SPOS_F1_Q	ADC3	26		1	k1lsc	k1lsc
MIF	SPOS	RF PD	SB Power in PRC f2 I-phase	K1:LSC-SPOS_F2_I	ADC3	27		1	k1lsc	k1lsc
MIF	SPOS	RF PD	SB Power in PRC f2 Q-phase	K1:LSC-SPOS_F2_Q	ADC3	28		1	k1lsc	k1lsc
MIF	SPOS	RF PD	SB Power in PRC f1 DC	K1:LSC-SPOS_F1_DC	ADC3	29			k1lsc	k1lsc
MIF	SPOS	RF PD	SB Power in PRC f2 DC	K1:LSC-SPOS_F2_DC	ADC3	30			k1lsc	k1lsc
MIF	POS	RF PD	Green lock DC	K1:LSC-POS_GR1_DC	ADC3	31			k1lsc	k1lsc
MIF	SPOP		spare		ADC3	32			k1lsc	k1lsc

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISO whitening	Dewhitening	RT model	RT PC name
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 1 I-phase	K1:LSC-REFL_QPD_F1_G1_Q1_I	ADC1	1		1		k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 1 Q-phase	K1:LSC-REFL_QPD_F1_G1_Q1_Q	ADC1	2		1		k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 2 I-phase	K1:LSC-REFL_QPD_F1_G1_Q2_I	ADC1	3		1		k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 2 Q-phase	K1:LSC-REFL_QPD_F1_G1_Q2_Q	ADC1	4		1		k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 3 I-phase	K1:LSC-REFL_QPD_F1_G1_Q3_I	ADC1	5		1		k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 3 Q-phase	K1:LSC-REFL_QPD_F1_G1_Q3_Q	ADC1	6		1		k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 4 I-phase	K1:LSC-REFL_QPD_F1_G1_Q4_I	ADC1	7		1		k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 4 Q-phase	K1:LSC-REFL_QPD_F1_G1_Q4_Q	ADC1	8		1		k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 1 DC	K1:LSC-REFL_QPD_F1_G1_Q1_DC	ADC1	9				k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 2 DC	K1:LSC-REFL_QPD_F1_G1_Q2_DC	ADC1	10				k1asc	k1asc1
MIF	REFL	RF QPD	f1 Gouy phase 1 Quadrature 3 DC	K1:LSC-REFL_QPD_F1_G1_Q3_DC	ADC1	11				k1asc	k1asc1



MIF	AS	RF QPD	f1 Gouy phase 2 Quadrature 4 I-phase	K1:LSC-AS_QPD_F1_G2_Q4_I	ADC3	19		1	k1asc	k1asc1
MIF	AS	RF QPD	f1 Gouy phase 2 Quadrature 4 Q-phase	K1:LSC-AS_QPD_F1_G2_Q4_Q	ADC3	20		1	k1asc	k1asc1
MIF	AS	RF QPD	f1 Gouy phase 2 Quadrature 1 DC	K1:LSC-AS_QPD_F1_G2_Q1_DC	ADC3	21			k1asc	k1asc1
MIF	AS	RF QPD	f1 Gouy phase 2 Quadrature 2 DC	K1:LSC-AS_QPD_F1_G2_Q2_DC	ADC3	22			k1asc	k1asc1
MIF	AS	RF QPD	f1 Gouy phase 2 Quadrature 3 DC	K1:LSC-AS_QPD_F1_G2_Q3_DC	ADC3	23			k1asc	k1asc1
MIF	AS	RF QPD	f1 Gouy phase 2 Quadrature 4 DC	K1:LSC-AS_QPD_F1_G2_Q4_DC	ADC3	24			k1asc	k1asc1
MIF	OMC	DC QPD	OMC alignment 1 Quadrature 1	K1:LSC-OMC_QPD1_Q1	ADC3	25		1	k1asc	k1asc1
MIF	OMC	DC QPD	OMC alignment 1 Quadrature 2	K1:LSC-OMC_QPD1_Q2	ADC3	26		1	k1asc	k1asc1
MIF	OMC	DC QPD	OMC alignment 1 Quadrature 3	K1:LSC-OMC_QPD1_Q3	ADC3	27		1	k1asc	k1asc1
MIF	OMC	DC QPD	OMC alignment 1 Quadrature 4	K1:LSC-OMC_QPD1_Q4	ADC3	28		1	k1asc	k1asc1
MIF	OMC	DC QPD	OMC alignment 2 Quadrature 1	K1:LSC-OMC_QPD2_Q1	ADC3	29		1	k1asc	k1asc1
MIF	OMC	DC QPD	OMC alignment 2 Quadrature 2	K1:LSC-OMC_QPD2_Q2	ADC3	30		1	k1asc	k1asc1
MIF	OMC	DC QPD	OMC alignment 2 Quadrature 3	K1:LSC-OMC_QPD2_Q3	ADC3	31		1	k1asc	k1asc1
MIF	OMC	DC QPD	OMC alignment 2 Quadrature 4	K1:LSC-OMC_QPD2_Q4	ADC3	32		1	k1asc	k1asc1

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISC whitening	Dewhitening	RT model	RT PC name
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 1 I-phase	K1:LSC-POP_QPD_F1_G1_Q1_I	ADC1	1		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 1 Q-phase	K1:LSC-POP_QPD_F1_G1_Q1_Q	ADC1	2		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 2 I-phase	K1:LSC-POP_QPD_F1_G1_Q2_I	ADC1	3		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 2 Q-phase	K1:LSC-POP_QPD_F1_G1_Q2_Q	ADC1	4		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 3 I-phase	K1:LSC-POP_QPD_F1_G1_Q3_I	ADC1	5		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 3 Q-phase	K1:LSC-POP_QPD_F1_G1_Q3_Q	ADC1	6		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 4 I-phase	K1:LSC-POP_QPD_F1_G1_Q4_I	ADC1	7		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 4 Q-phase	K1:LSC-POP_QPD_F1_G1_Q4_Q	ADC1	8		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 1 DC	K1:LSC-POP_QPD_F1_G1_Q1_DC	ADC1	9				k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 2 DC	K1:LSC-POP_QPD_F1_G1_Q2_DC	ADC1	10				k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 3 DC	K1:LSC-POP_QPD_F1_G1_Q3_DC	ADC1	11				k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 1 Quadrature 4 DC	K1:LSC-POP_QPD_F1_G1_Q4_DC	ADC1	12				k1asc	k1asc2
MIF	POP		spare		ADC1	13				k1asc	k1asc2
MIF	POP		spare		ADC1	14				k1asc	k1asc2
MIF	POP		spare		ADC1	15				k1asc	k1asc2
MIF	POP		spare		ADC1	16				k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 1 I-phase	K1:LSC-POP_QPD_F1_G2_Q1_I	ADC1	17		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 1 Q-phase	K1:LSC-POP_QPD_F1_G2_Q1_Q	ADC1	18		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 2 I-phase	K1:LSC-POP_QPD_F1_G2_Q2_I	ADC1	19		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 2 Q-phase	K1:LSC-POP_QPD_F1_G2_Q2_Q	ADC1	20		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 3 I-phase	K1:LSC-POP_QPD_F1_G2_Q3_I	ADC1	21		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 3 Q-phase	K1:LSC-POP_QPD_F1_G2_Q3_Q	ADC1	22		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 4 I-phase	K1:LSC-POP_QPD_F1_G2_Q4_I	ADC1	23		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 4 Q-phase	K1:LSC-POP_QPD_F1_G2_Q4_Q	ADC1	24		1		k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 1 DC	K1:LSC-POP_QPD_F1_G2_Q1_DC	ADC1	25				k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 2 DC	K1:LSC-POP_QPD_F1_G2_Q2_DC	ADC1	26				k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 3 DC	K1:LSC-POP_QPD_F1_G2_Q3_DC	ADC1	27				k1asc	k1asc2
MIF	POP	RF QPD	f1 Gouy phase 2 Quadrature 4 DC	K1:LSC-POP_QPD_F1_G2_Q4_DC	ADC1	28				k1asc	k1asc2
MIF	POP		spare		ADC1	29				k1asc	k1asc2
MIF	POP		spare		ADC1	30				k1asc	k1asc2
MIF	POP		spare		ADC1	31				k1asc	k1asc2
MIF	POP		reserved for 1PPS		ADC1	32				k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 1 I-phase	K1:LSC-POP_QPD_F2_G1_Q1_I	ADC2	1		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 1 Q-phase	K1:LSC-POP_QPD_F2_G1_Q1_Q	ADC2	2		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 2 I-phase	K1:LSC-POP_QPD_F2_G1_Q2_I	ADC2	3		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 2 Q-phase	K1:LSC-POP_QPD_F2_G1_Q2_Q	ADC2	4		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 3 I-phase	K1:LSC-POP_QPD_F2_G1_Q3_I	ADC2	5		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 3 Q-phase	K1:LSC-POP_QPD_F2_G1_Q3_Q	ADC2	6		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 4 I-phase	K1:LSC-POP_QPD_F2_G1_Q4_I	ADC2	7		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 4 Q-phase	K1:LSC-POP_QPD_F2_G1_Q4_Q	ADC2	8		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 1 DC	K1:LSC-POP_QPD_F2_G1_Q1_DC	ADC2	9				k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 2 DC	K1:LSC-POP_QPD_F2_G1_Q2_DC	ADC2	10				k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 3 DC	K1:LSC-POP_QPD_F2_G1_Q3_DC	ADC2	11				k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 1 Quadrature 4 DC	K1:LSC-POP_QPD_F2_G1_Q4_DC	ADC2	12				k1asc	k1asc2
MIF	POP		spare		ADC2	13				k1asc	k1asc2
MIF	POP		spare		ADC2	14				k1asc	k1asc2
MIF	POP		spare		ADC2	15				k1asc	k1asc2
MIF	POP		spare		ADC2	16				k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 1 I-phase	K1:LSC-POP_QPD_F2_G2_Q1_I	ADC2	17		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 1 Q-phase	K1:LSC-POP_QPD_F2_G2_Q1_Q	ADC2	18		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 2 I-phase	K1:LSC-POP_QPD_F2_G2_Q2_I	ADC2	19		1		k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 2 Q-phase	K1:LSC-POP_QPD_F2_G2_Q2_Q	ADC2	20		1		k1asc	k1asc2



MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 3 I-phase	K1:LSC-POP_QPD_F2_G2_Q3_I	ADC2	21		1	k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 3 Q-phase	K1:LSC-POP_QPD_F2_G2_Q3_Q	ADC2	22		1	k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 4 I-phase	K1:LSC-POP_QPD_F2_G2_Q4_I	ADC2	23		1	k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 4 Q-phase	K1:LSC-POP_QPD_F2_G2_Q4_Q	ADC2	24		1	k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 1 DC	K1:LSC-POP_QPD_F2_G2_Q1_DC	ADC2	25			k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 2 DC	K1:LSC-POP_QPD_F2_G2_Q2_DC	ADC2	26			k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 3 DC	K1:LSC-POP_QPD_F2_G2_Q3_DC	ADC2	27			k1asc	k1asc2
MIF	POP	RF QPD	f2 Gouy phase 2 Quadrature 4 DC	K1:LSC-POP_QPD_F2_G2_Q4_DC	ADC2	28			k1asc	k1asc2
MIF	POP		spare		ADC2	29			k1asc	k1asc2
MIF	POP		spare		ADC2	30			k1asc	k1asc2
MIF	POP		spare		ADC2	31			k1asc	k1asc2
MIF	POP		spare		ADC2	32			k1asc	k1asc2

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Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	ISO whitening	Dewhitening	RT model	RT PC name
AUX	POP	RF PD	Green lock I-phase	K1:LSC-POP_GR1_I	ADC1	1		1	k1gr	k1aux	
AUX	POP	RF PD	Green lock Q-phase	K1:LSC-POP_GR1_Q	ADC1	2		1	k1gr	k1aux	
AUX	POP		spare		ADC1	3			k1gr	k1aux	
AUX	POP		spare		ADC1	4			k1gr	k1aux	
AUX	POS	RF PD	Green lock I-phase	K1:LSC-POS_GR1_I	ADC1	5		1	k1gr	k1aux	
AUX	POS	RF PD	Green lock Q-phase	K1:LSC-POS_GR1_Q	ADC1	6		1	k1gr	k1aux	
AUX	POS		spare		ADC1	7			k1gr	k1aux	
AUX			spare		ADC1	8			k1gr	k1aux	
AUX			spare		ADC1	9			k1gr	k1aux	
AUX			spare		ADC1	10			k1gr	k1aux	
AUX			spare		ADC1	11			k1gr	k1aux	
AUX			spare		ADC1	12			k1gr	k1aux	
AUX			spare		ADC1	13			k1gr	k1aux	
AUX			spare		ADC1	14			k1gr	k1aux	
AUX			spare		ADC1	15			k1gr	k1aux	
AUX			spare		ADC1	16			k1gr	k1aux	
AUX			spare		ADC1	17			k1gr	k1aux	
AUX			spare		ADC1	18			k1gr	k1aux	
AUX			spare		ADC1	19			k1gr	k1aux	
AUX			spare		ADC1	20			k1gr	k1aux	
AUX			spare		ADC1	21			k1gr	k1aux	
AUX			spare		ADC1	22			k1gr	k1aux	
AUX			spare		ADC1	23			k1gr	k1aux	
AUX			spare		ADC1	24			k1gr	k1aux	
AUX			spare		ADC1	25			k1gr	k1aux	
AUX			spare		ADC1	26			k1gr	k1aux	
AUX			spare		ADC1	27			k1gr	k1aux	
AUX			spare		ADC1	28			k1gr	k1aux	
AUX			spare		ADC1	29			k1gr	k1aux	
AUX			spare		ADC1	30			k1gr	k1aux	
AUX			spare		ADC1	31			k1gr	k1aux	
AUX			reserved for 1PPS		ADC1	32			k1gr	k1aux	

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