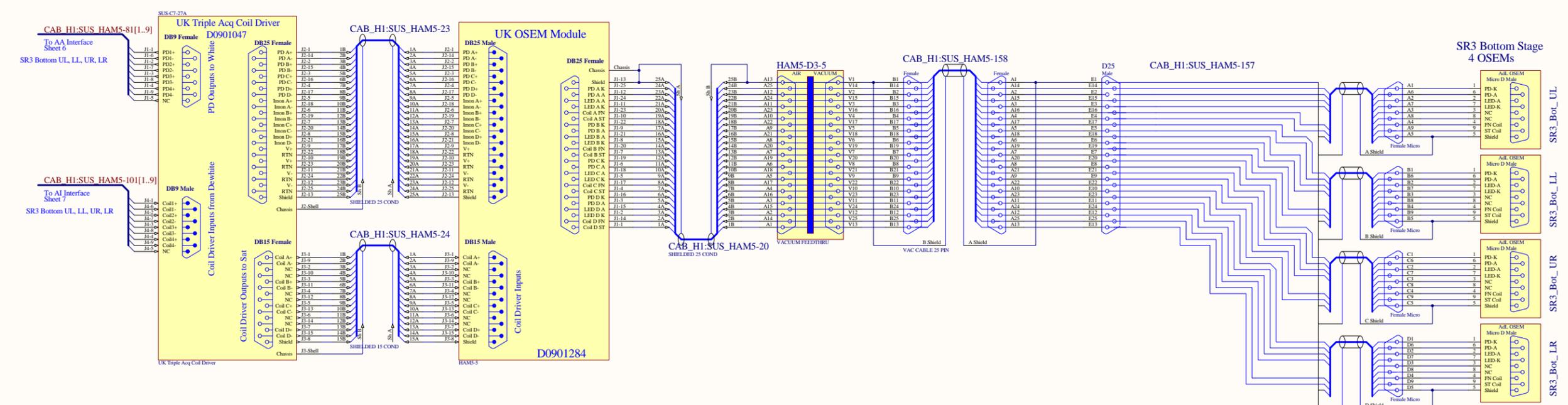
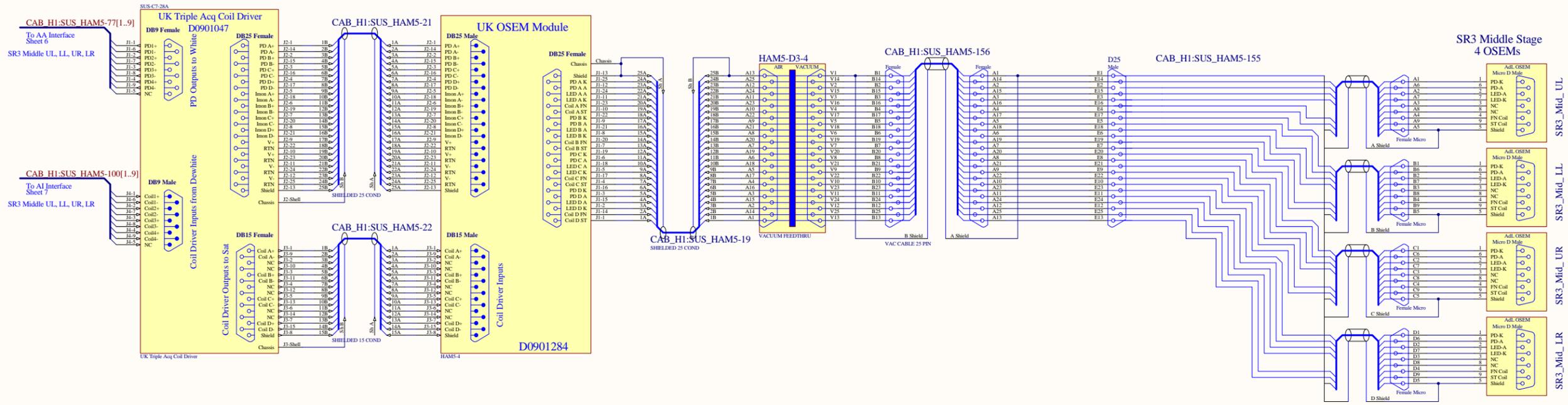


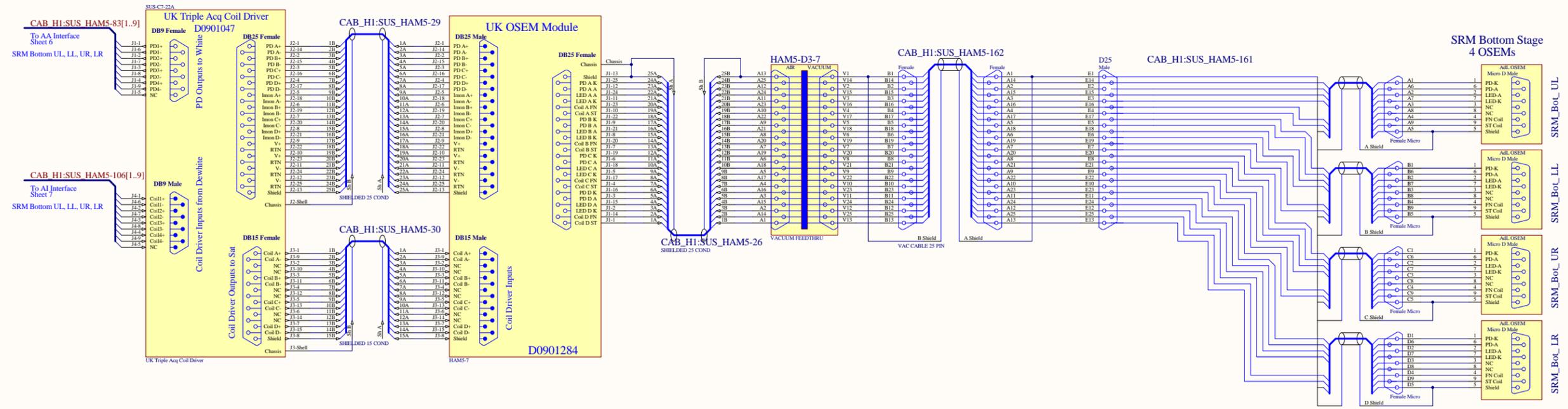
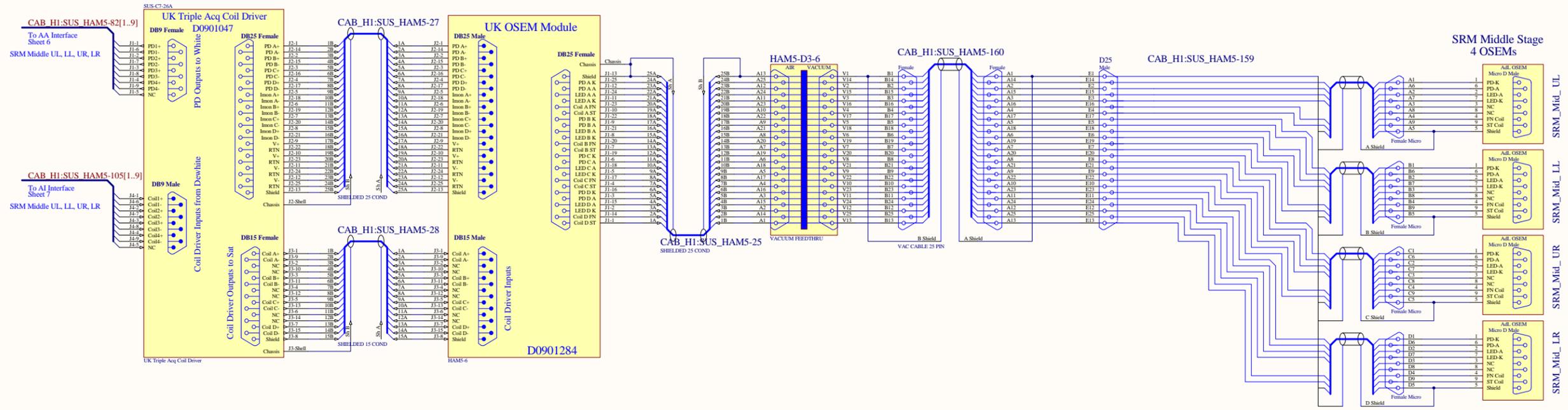
SR3-TOP

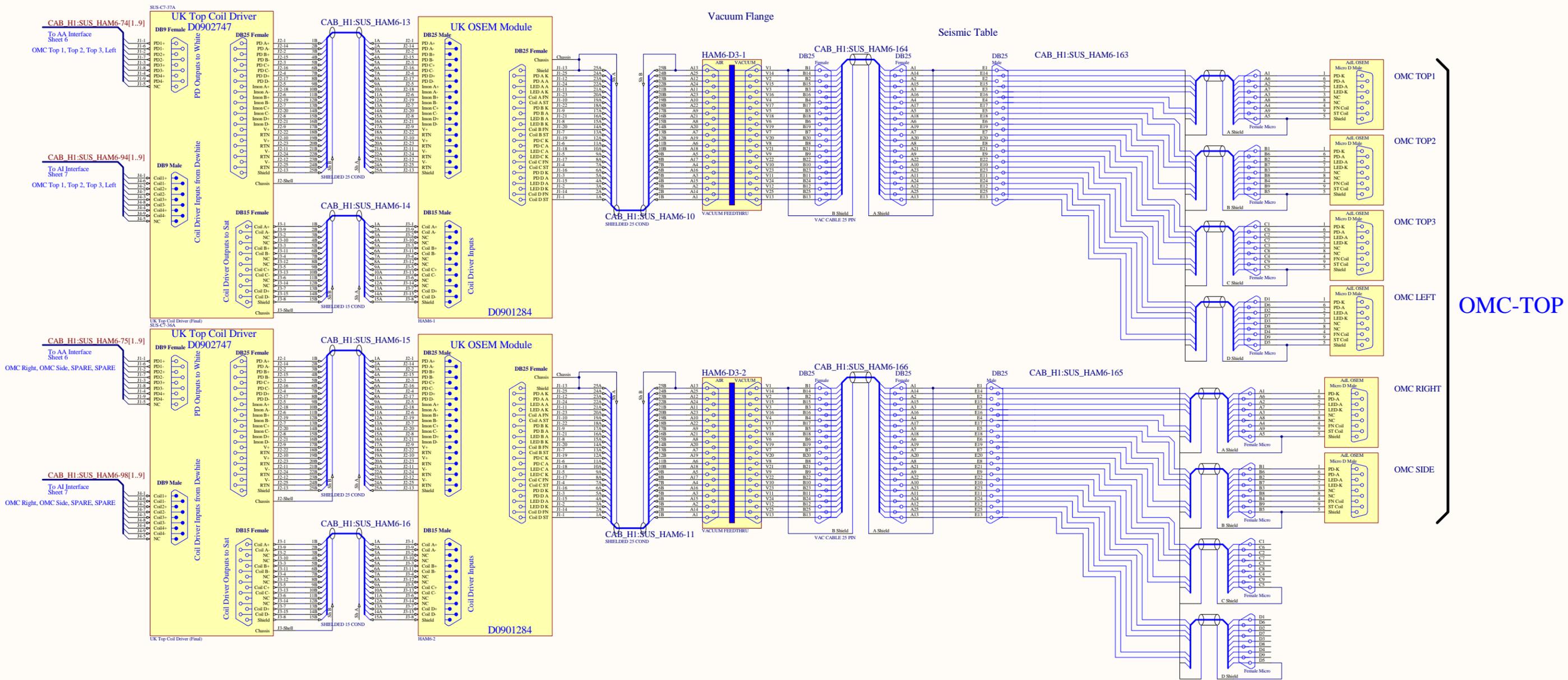
SRM-TOP

SR3 Middle and Bottom Stages



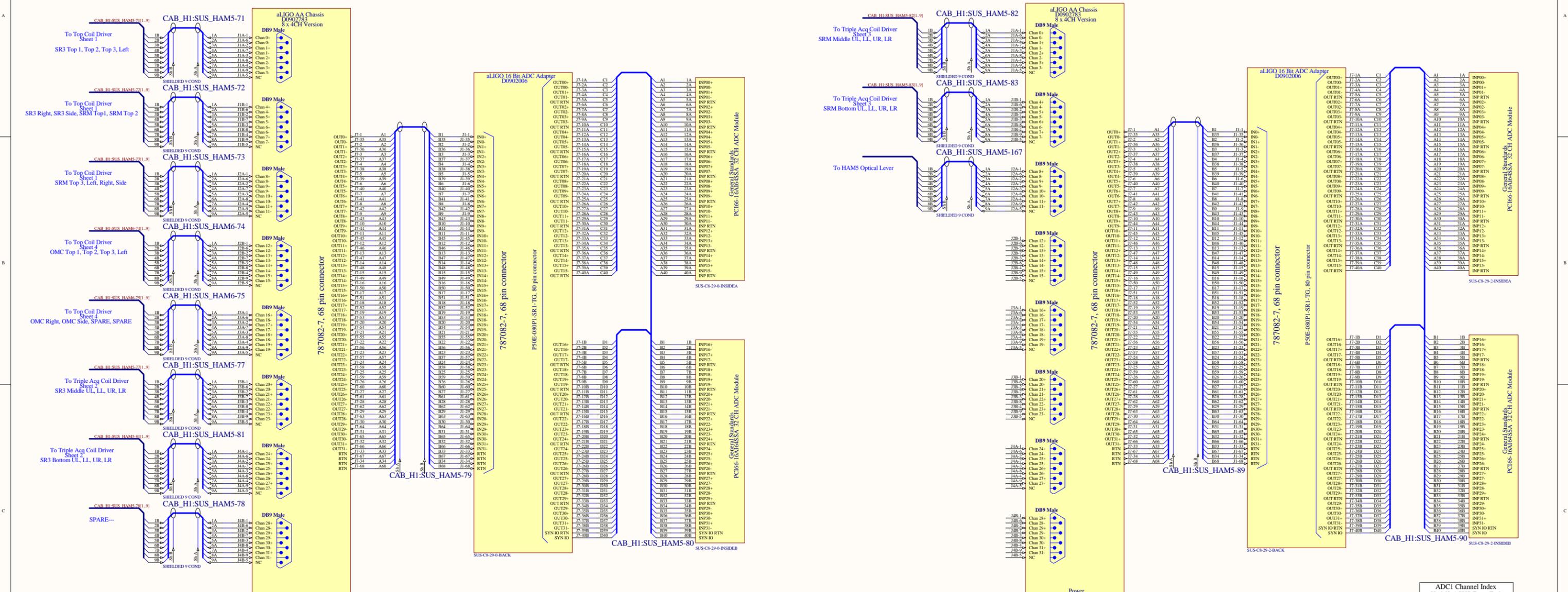
SRM Middle and Bottom Stages





OMC-TOP

HAM5-6 SUS Front End CPU ADC Connections



ADC Channel Index
HAM5-6 SUS Front

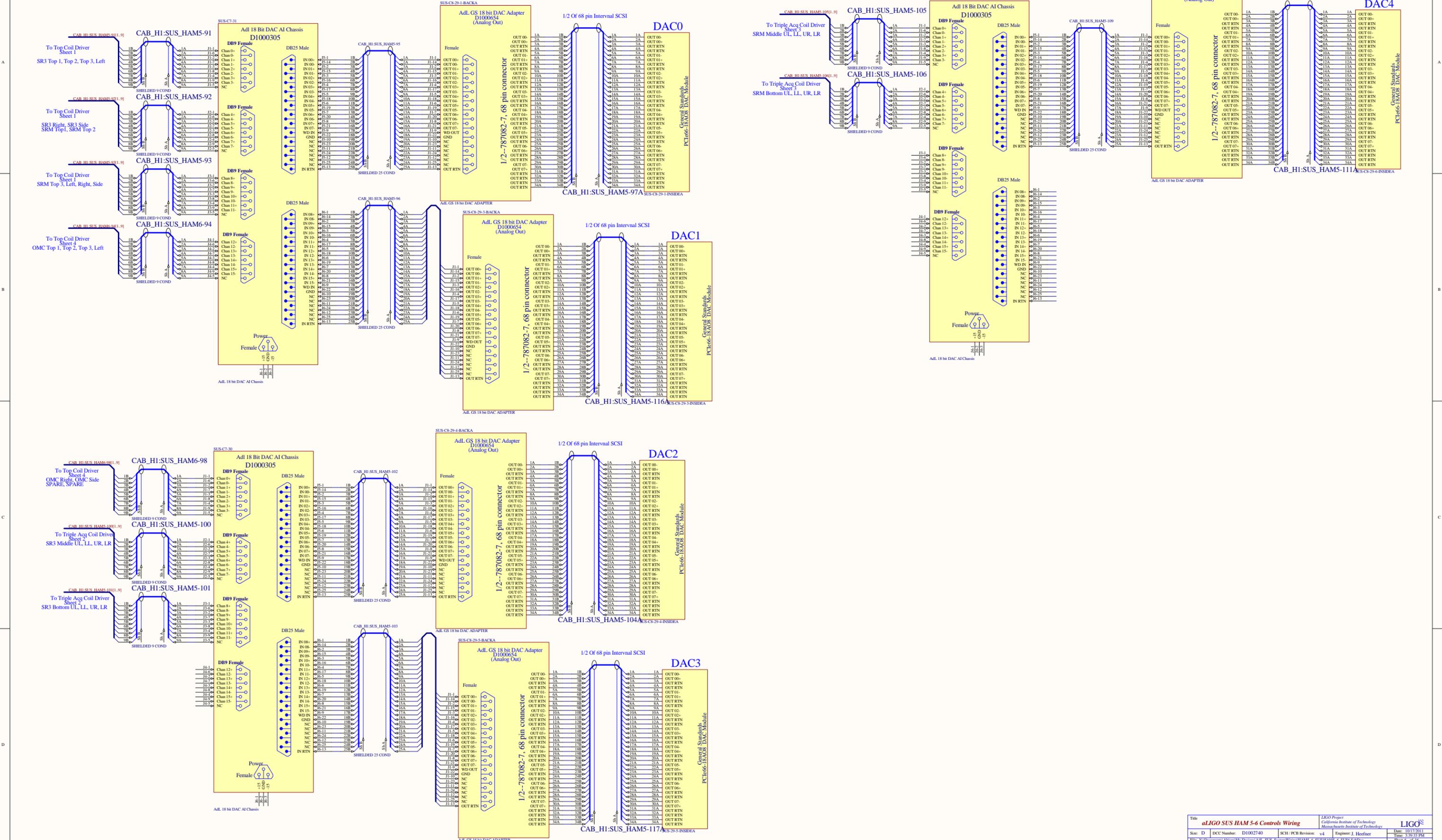
CH0	- SR3 TOP1
CH1	- SR3 TOP2
CH2	- SR3 TOP3
CH3	- SR3 LEFT
CH4	- SR3 RIGHT
CH5	- SR3 SIDE
CH6	- SRM TOP1
CH7	- SRM TOP2
CH8	- SRM TOP3
CH9	- SRM LEFT
CH10	- SRM RIGHT
CH11	- SRM SIDE
CH12	- OMC TOP1
CH13	- OMC TOP2
CH14	- OMC TOP3
CH15	- OMC LEFT
CH16	- OMC RIGHT
CH17	- OMC SIDE
CH18	- SPARE
CH19	- SPARE
CH20	- SR3 MID UL
CH21	- SR3 MID LL
CH22	- SR3 MID UR
CH23	- SR3 MID LR
CH24	- SR3 BOT UL
CH25	- SR3 BOT LL
CH26	- SR3 BOT UR
CH27	- SR3 BOT LR
CH28	- SPARE
CH29	- SPARE
CH30	- SPARE
CH31	- Spare
CH32	- SPARE

ADC1 Channel Index
HAM3-4 SUS Front End

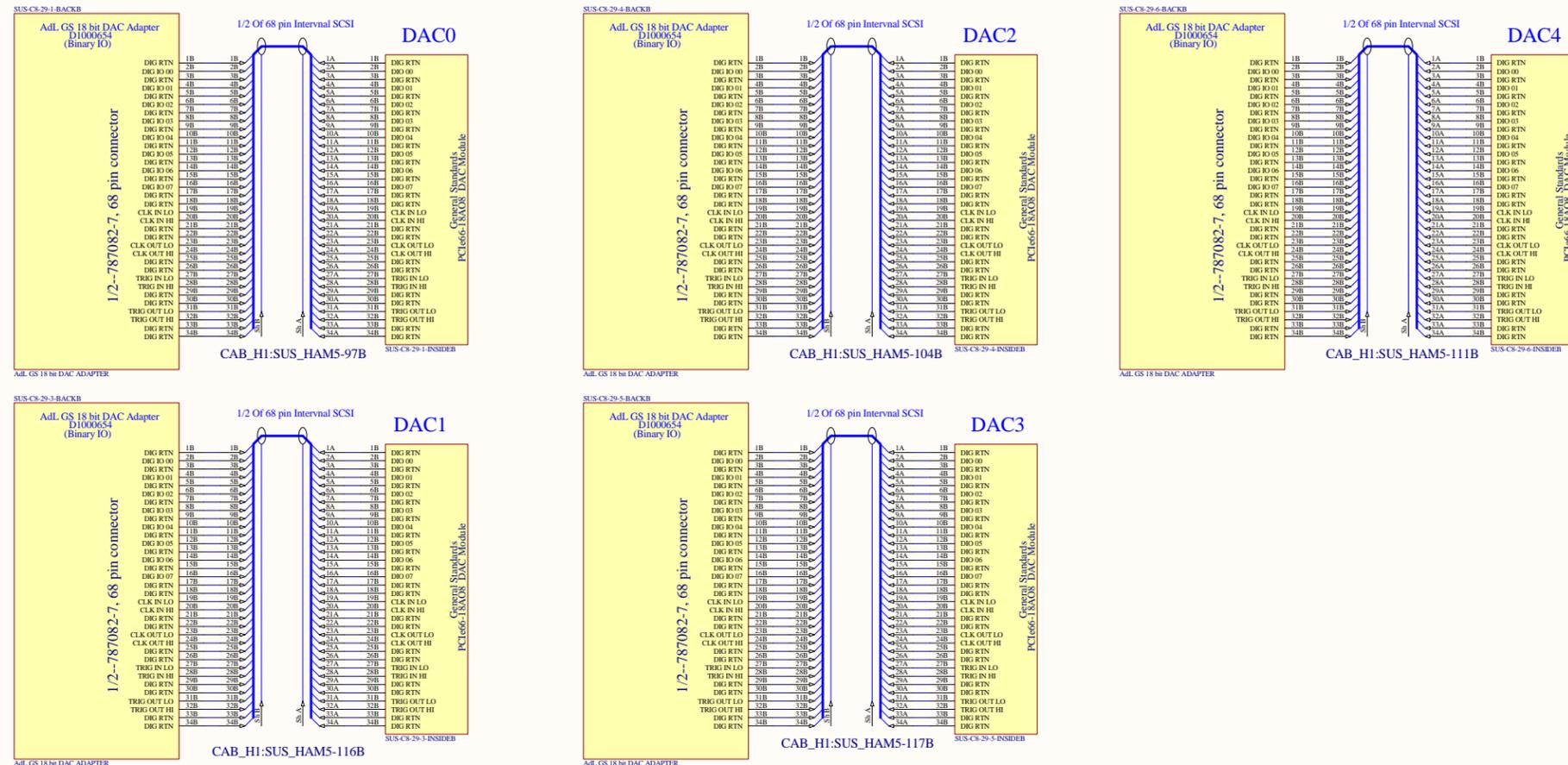
CH0	- SRM MID UL
CH1	- SRM MID LL
CH2	- SRM MID UR
CH3	- SRM MID LR
CH4	- SRM BOT UL
CH5	- SRM BOT LL
CH6	- SRM BOT UR
CH7	- SRM BOT LR
CH8	- HAMS OPT LEVER QUAD 1
CH9	- HAMS OPT LEVER QUAD 2
CH10	- HAMS OPT LEVER QUAD 3
CH11	- HAMS OPT LEVER QUAD 4
CH12	- SPARE
CH13	- SPARE
CH14	- SPARE
CH15	- SPARE
CH16	- SPARE
CH17	- SPARE
CH18	- SPARE
CH19	- SPARE
CH20	- SPARE
CH21	- SPARE
CH22	- SPARE
CH23	- SPARE
CH24	- SPARE
CH25	- SPARE
CH26	- SPARE
CH27	- SPARE
CH28	- SPARE
CH29	- SPARE
CH30	- SPARE
CH31	- SPARE

HAM5-4 SUS Front End CPU DAC Connections

See Sheet 8 for DAC Binary Connections and Channel Lists



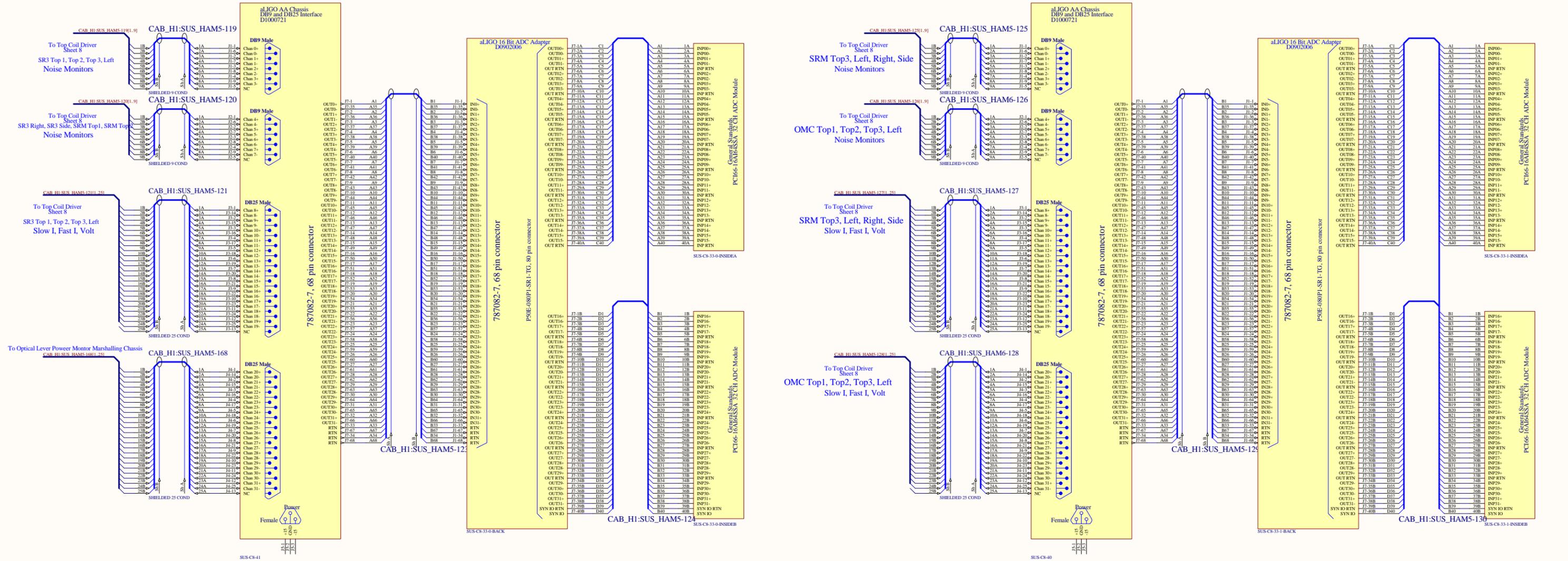
HAM5-6 SUS Front End CPU DAC BIO Connections and Channel Assignments



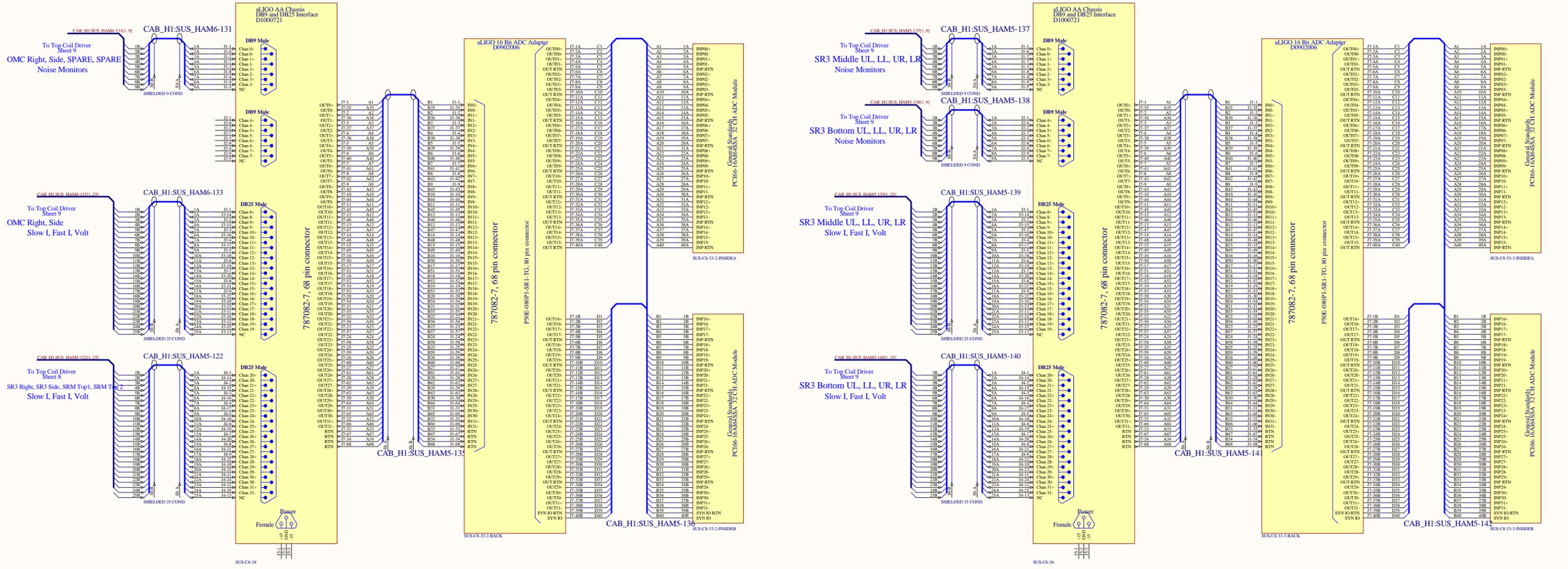
DAC Channel Index HAM5-6 SUS Front End					
Chan #	DAC 0	DAC 1	DAC 2	DAC 3	DAC 4
0	SR3 TOP1	SRM TOP3	OMC RIGHT	SR3 BOT UL	SRM Mid LL
1	SR3 TOP2	SRM LEFT	OMC SIDE	SR3 BOT LL	SRM Mid LL
2	SR3 TOP3	SRM RIGHT	SPARE	SR3 BOT UR	SRM Mid UR
3	SR3 LEFT	SRM SIDE	SPARE	SR3 BOT LR	SRM Mid LR
4	SR3 RIGHT	OMC TOP1	SR3 MID UL	SPARE	SRM Bot UL
5	SR3 SIDE	OMC TOP2	SR3 MID LL	SPARE	SRM Bot LL
6	SRM TOP1	OMC TOP3	SR3 MID UR	SPARE	SRM Bot UR
7	SRM TOP2	OMC LEFT	SR3 MID LR	SPARE	SRM Bot LR

Need to fix channel index and cable numbers

HAM5-6 SUS Monitor CPU ADC 0 & 1 Connections



HAM5-6 SUS Monitor CPU ADC 2 & 3 Connections



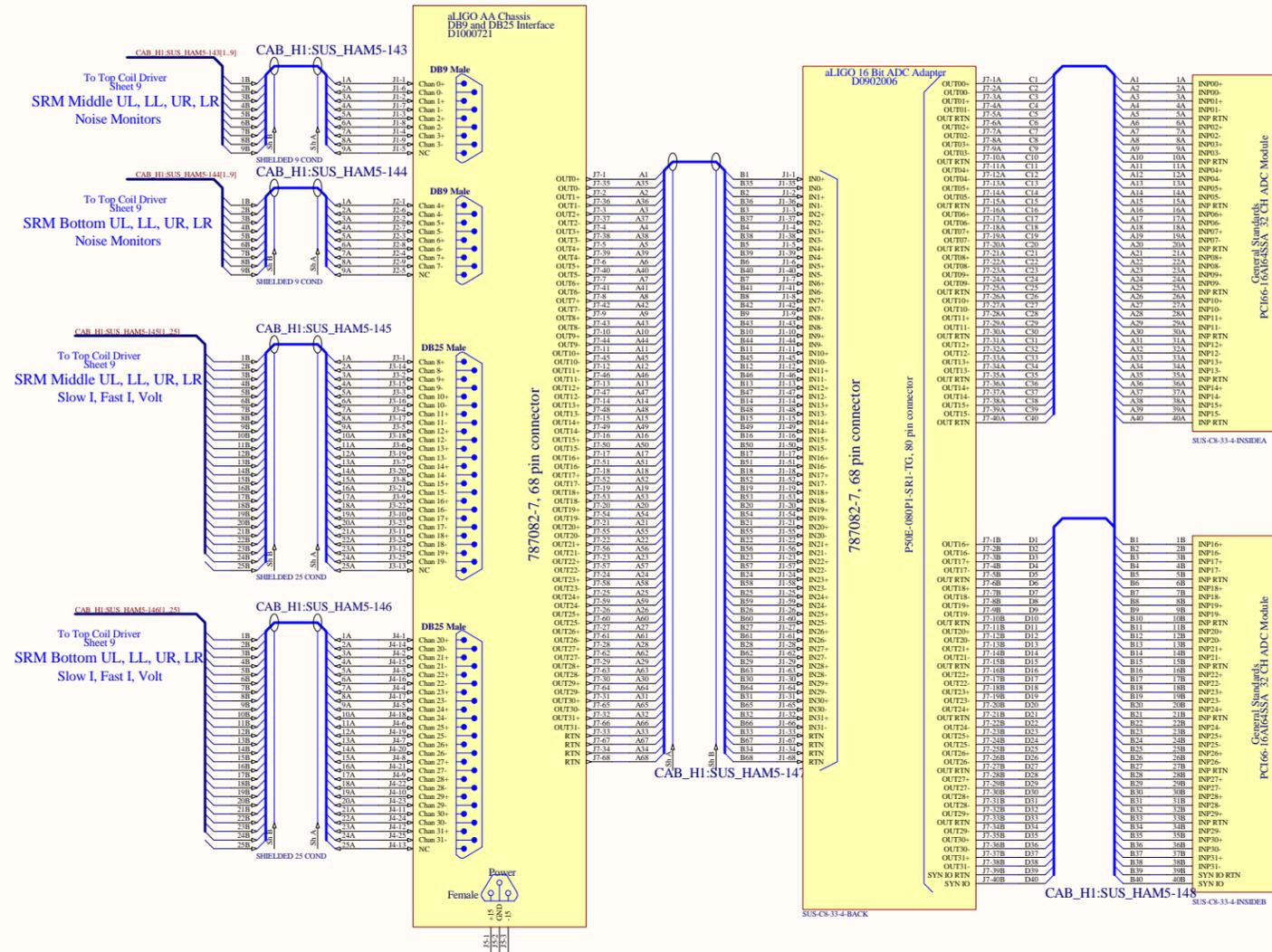
**ADC2 Channel Index
HAM5-6 SUS Monitor**

CH0- OMC RIGHT NM
CH1- OMC SIDE NM
CH2- SPARE
CH3- SPARE
CH4- SPARE
CH5- SPARE
CH6- SPARE
CH7- SPARE
CH8- OMC RIGHT SLOW I
CH9- OMC RIGHT FAST I
CH10- OMC RIGHT VOLT
CH11- OMC SIDE SLOW I
CH12- OMC SIDE FAST I
CH13- OMC SIDE VOLT
CH14- SPARE
CH15- SPARE
CH16- SPARE
CH17- SPARE
CH18- SPARE
CH19- SPARE
CH20- SR3 RIGHT SLOW I
CH21- SR3 RIGHT FAST I
CH22- SR3 RIGHT VOLT
CH23- SR3 SIDE SLOW I
CH24- SR3 SIDE FAST I
CH25- SR3 SIDE VOLT
CH26- SRM TOP1 SLOW I
CH27- SRM TOP1 FAST I
CH28- SRM TOP1 VOLT
CH29- SRM TOP2 SLOW I
CH30- SRM TOP2 FAST I
CH31- SRM TOP2 VOLT

**ADC3 Channel Index
HAM5-6 SUS Monitor**

CH0- SR3 MID UL NM
CH1- SR3 MID LL NM
CH2- SR3 MID UR NM
CH3- SR3 MID LR NM
CH4- SR3 BOT UL NM
CH5- SR3 BOT LL NM
CH6- SR3 BOT UR NM
CH7- SR3 BOT LR NM
CH8- SR3 MID UL SLOW I
CH9- SR3 MID UL FAST I
CH10- SR3 MID UL VOLT
CH11- SR3 MID LL SLOW I
CH12- SR3 MID LL FAST I
CH13- SR3 MID LL VOLT
CH14- SR3 MID UR SLOW I
CH15- SR3 MID UR FAST I
CH16- SR3 MID UR VOLT
CH17- SR3 MID LR SLOW I
CH18- SR3 MID LR FAST I
CH19- SR3 MID LR VOLT
CH20- SR3 BOT UL SLOW I
CH21- SR3 BOT UL FAST I
CH22- SR3 BOT UL VOLT
CH23- SR3 BOT LL SLOW I
CH24- SR3 BOT LL FAST I
CH25- SR3 BOT LL VOLT
CH26- SR3 BOT UR SLOW I
CH27- SR3 BOT UR FAST I
CH28- SR3 BOT UR VOLT
CH29- SR3 BOT LR SLOW I
CH30- SR3 BOT LR FAST I
CH31- SR3 BOT LR VOLT

HAM5-6 SUS Monitor CPU ADC 4 Connections

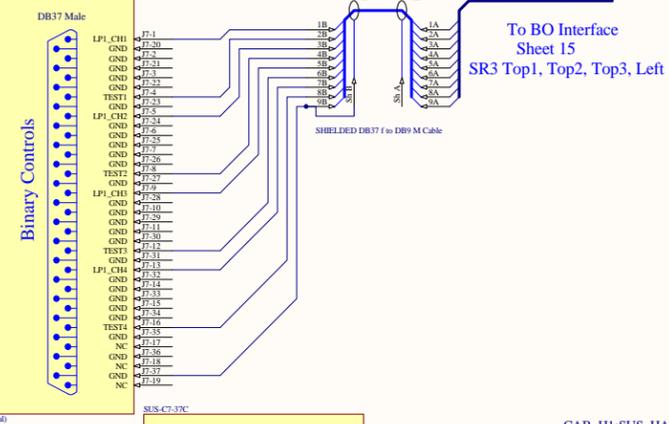
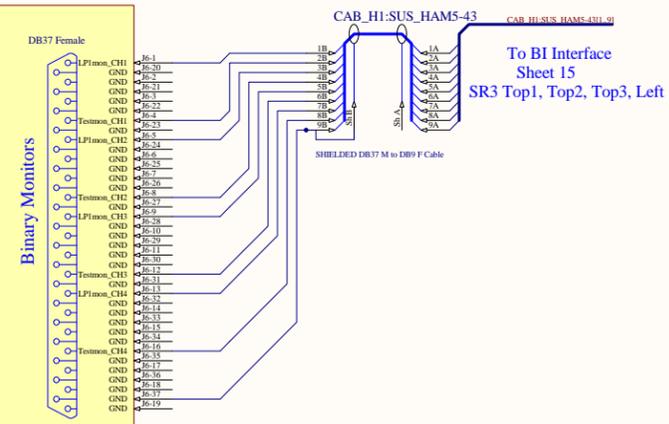


**ADC4 Channel Index
HAM5-6 SUS Monitor**

- CH0 - SRM MID UL NM
- CH1 - SRM MID LL NM
- CH2 - SRM MID UR NM
- CH3 - SRM MID LR NM
- CH4 - SRM BOT UL NM
- CH5 - SRM BOT LL NM
- CH6 - PR2 BOT UR NM
- CH7 - SRM BOT LR NM
- CH8 - SRM MID UL SLOW I
- CH9 - SRM MID UL FAST I
- CH10 - SRM MID LL SLOW I
- CH11 - SRM MID LL SLOW I
- CH12 - SRM MID LL FAST I
- CH13 - SRM MID LL VOLT
- CH14 - SRM MID UR SLOW I
- CH15 - SRM MID UR FAST I
- CH16 - SRM MID UR VOLT
- CH17 - SRM MID LR SLOW I
- CH18 - SRM MID LR FAST I
- CH19 - SRM MID LR VOLT
- CH20 - SRM BOT UL SLOW I
- CH21 - SRM BOT UL FAST I
- CH22 - SRM BOT UL VOLT
- CH23 - SRM BOT LL SLOW I
- CH24 - SRM BOT LL FAST I
- CH25 - SRM BOT LL VOLT
- CH26 - SRM BOT UR SLOW I
- CH27 - SRM BOT UR FAST I
- CH28 - SRM BOT UR VOLT
- CH29 - SRM BOT LR SLOW I
- CH30 - SRM BOT LR FAST I
- CH31 - SRM BOT LR VOLT

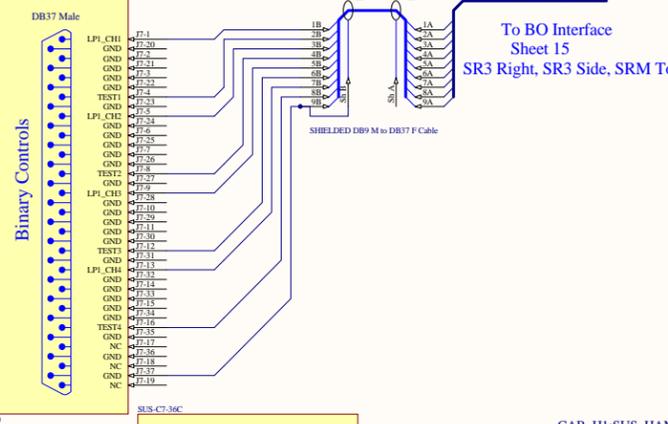
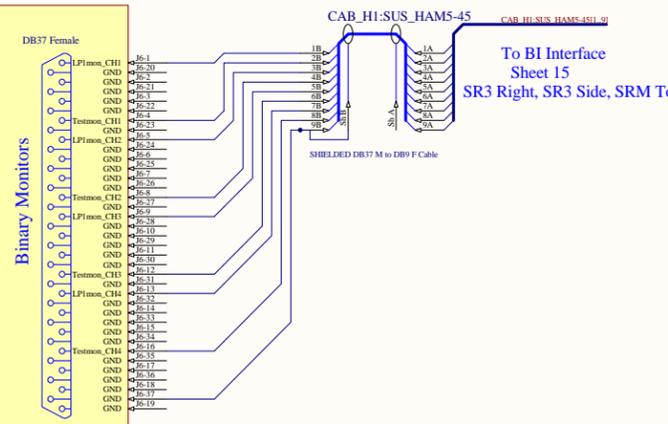
SR3 TOP Binary IO

UK TOP Coil Driver
D0902747



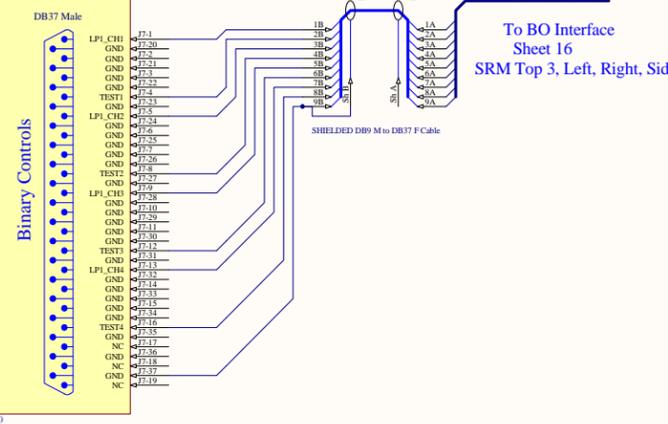
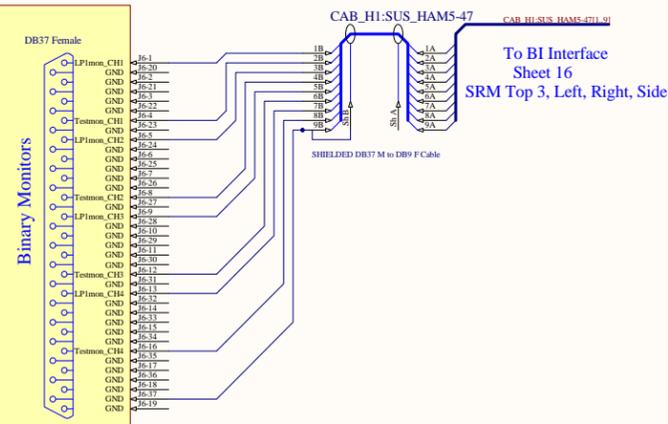
SR3-SRM TOP Binary IO

UK TOP Coil Driver
D0902747



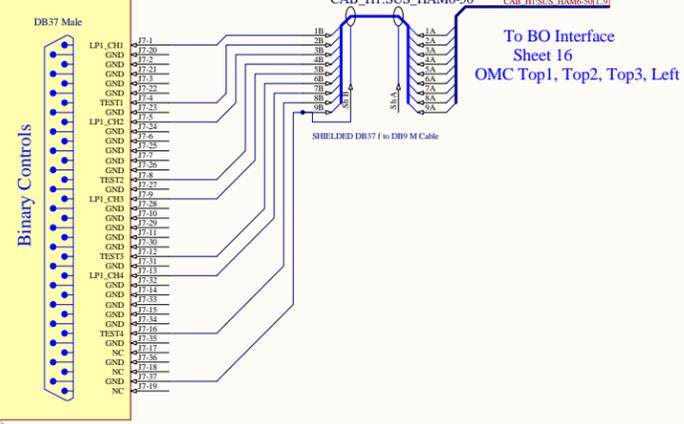
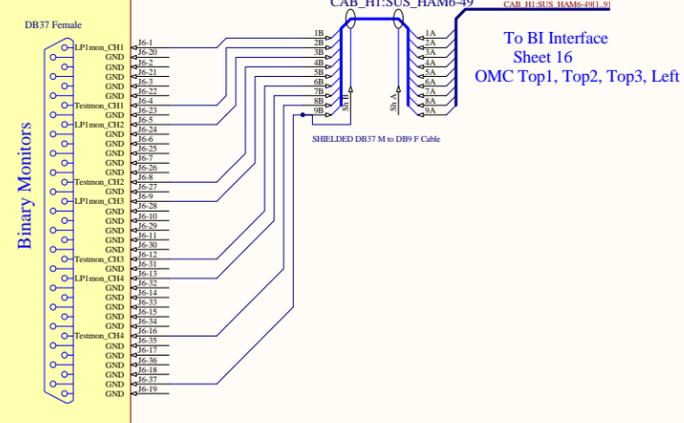
SRM TOP Binary IO

UK TOP Coil Driver
D0902747



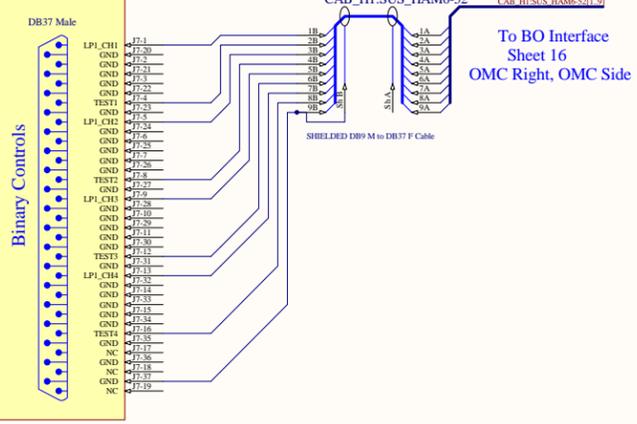
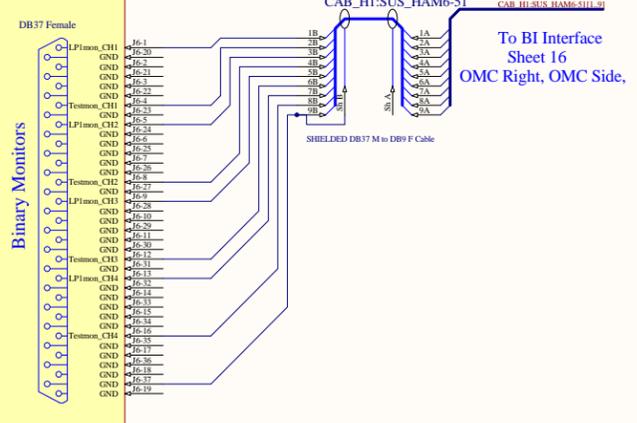
OMC TOP Binary IO

UK TOP Coil Driver
D0902747

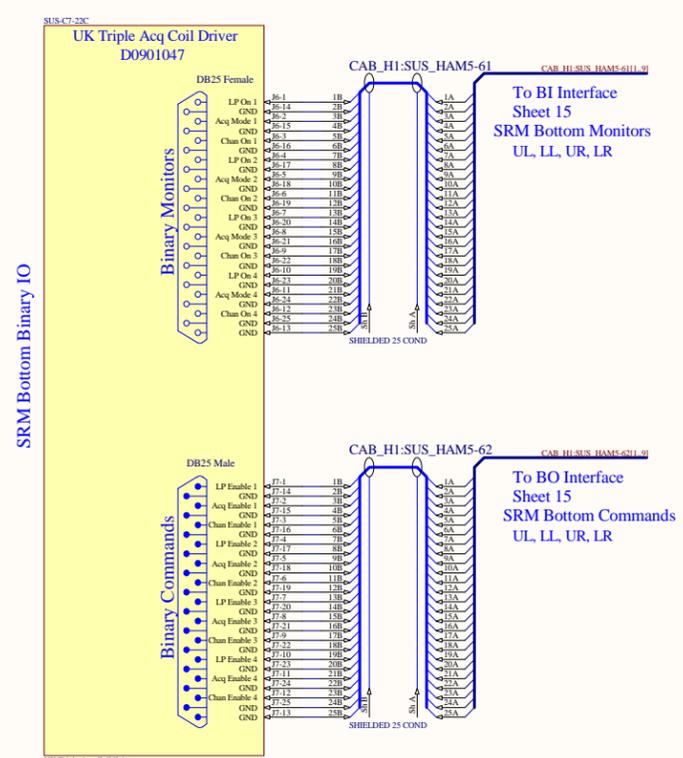
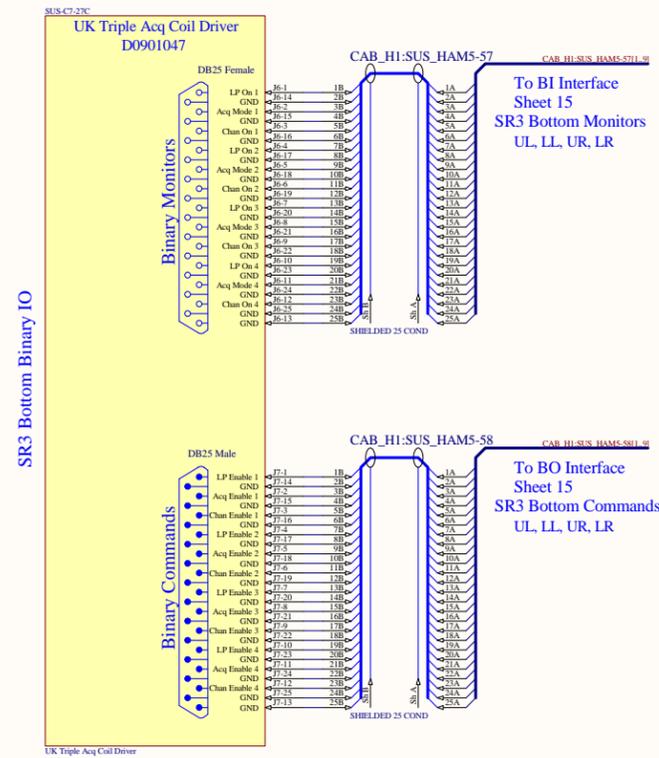
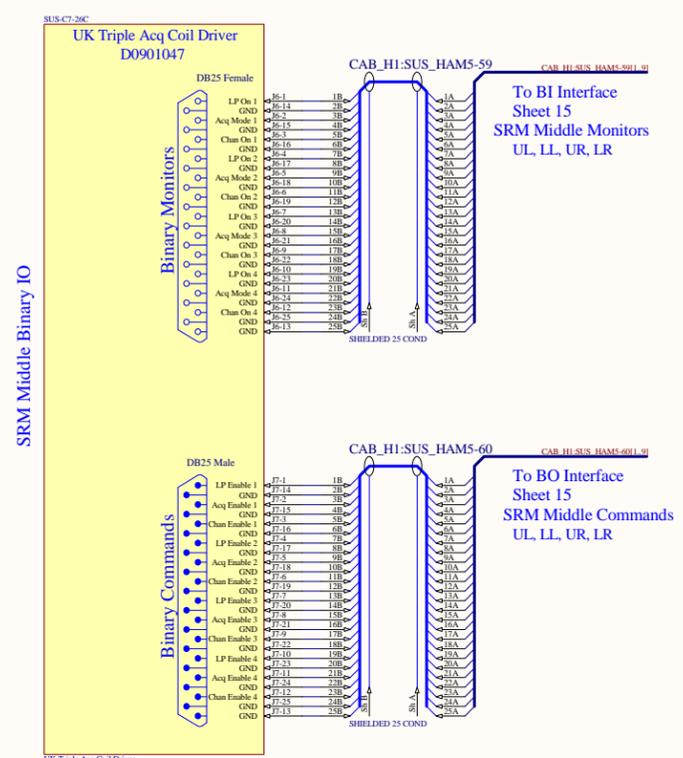
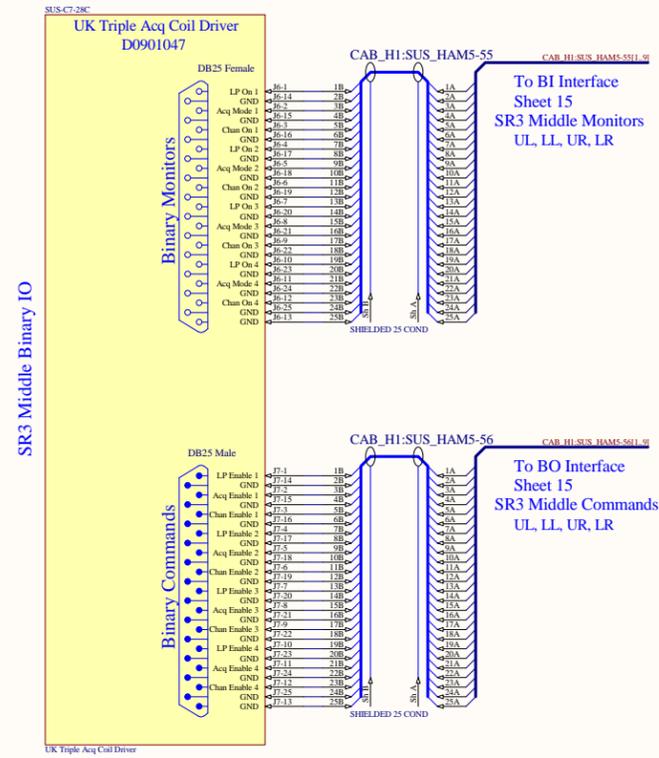


OMC TOP Binary IO

UK TOP Coil Driver
D0902747



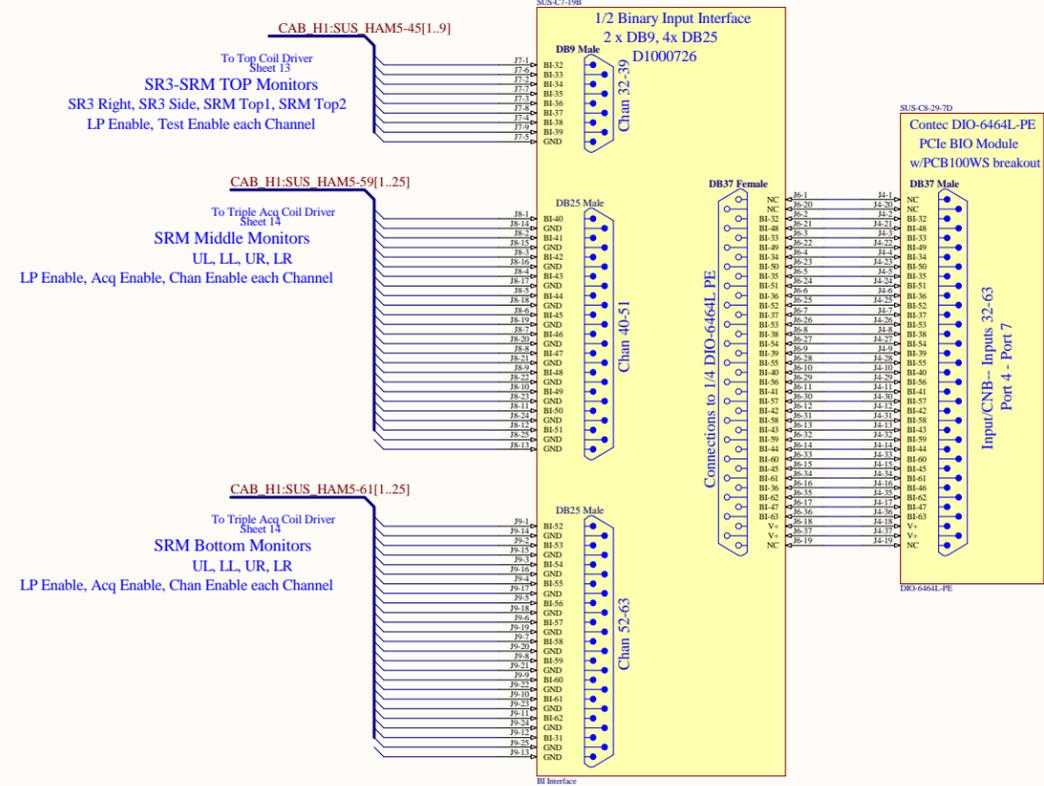
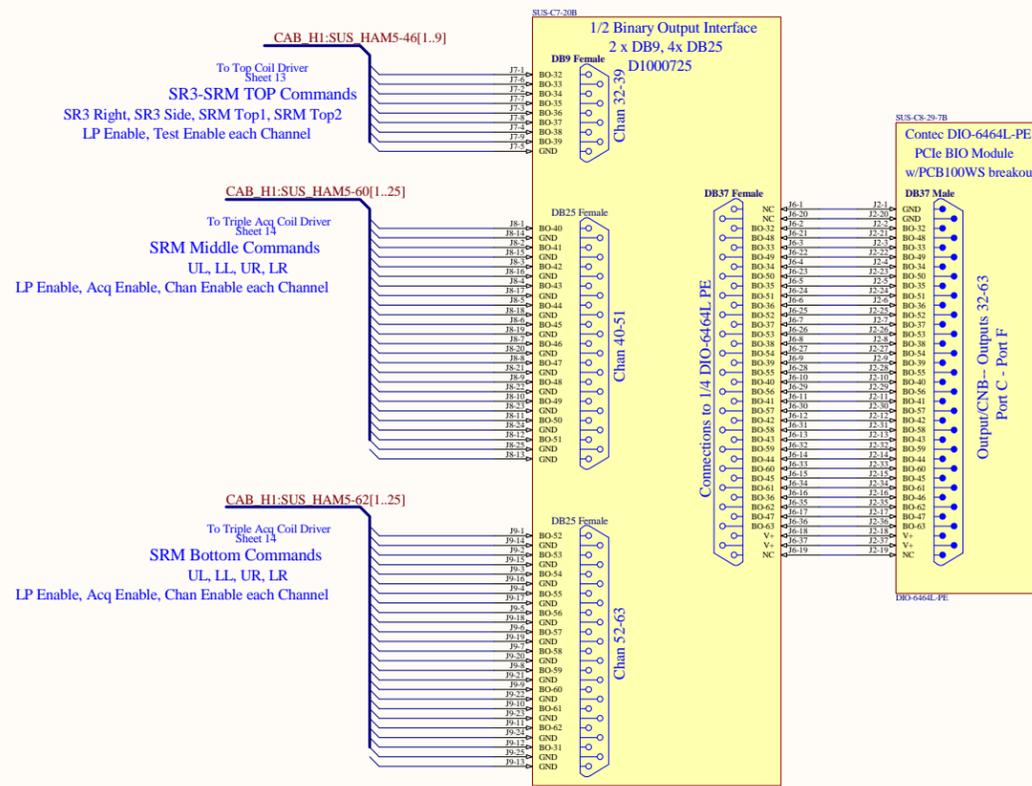
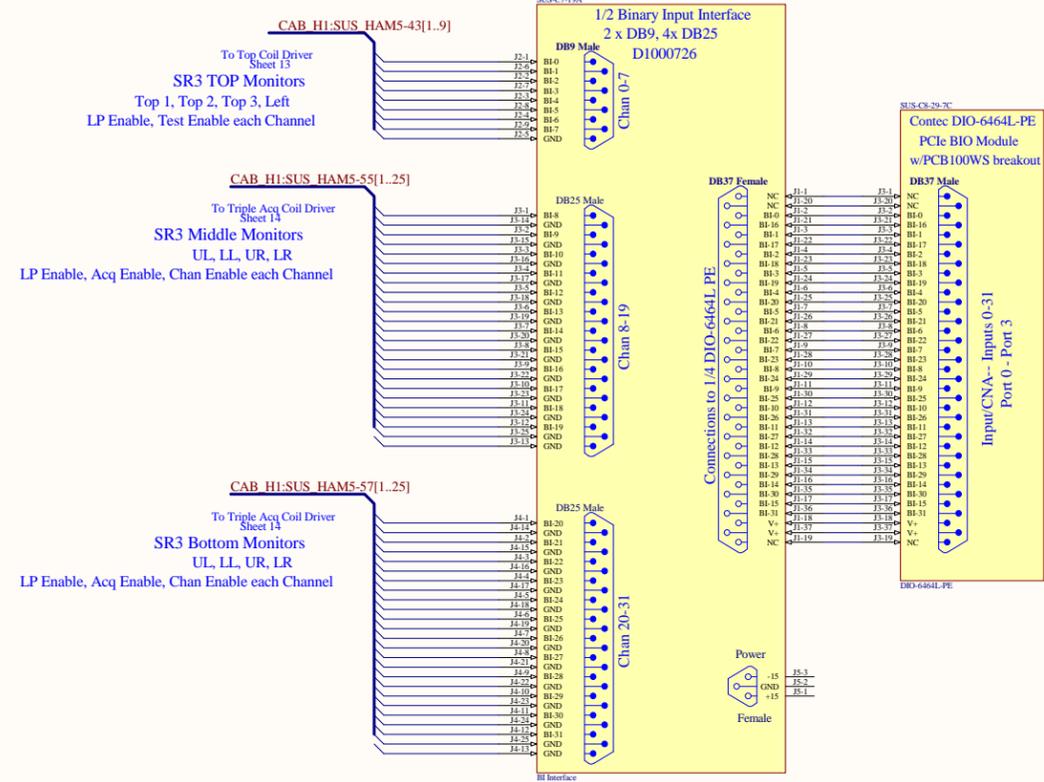
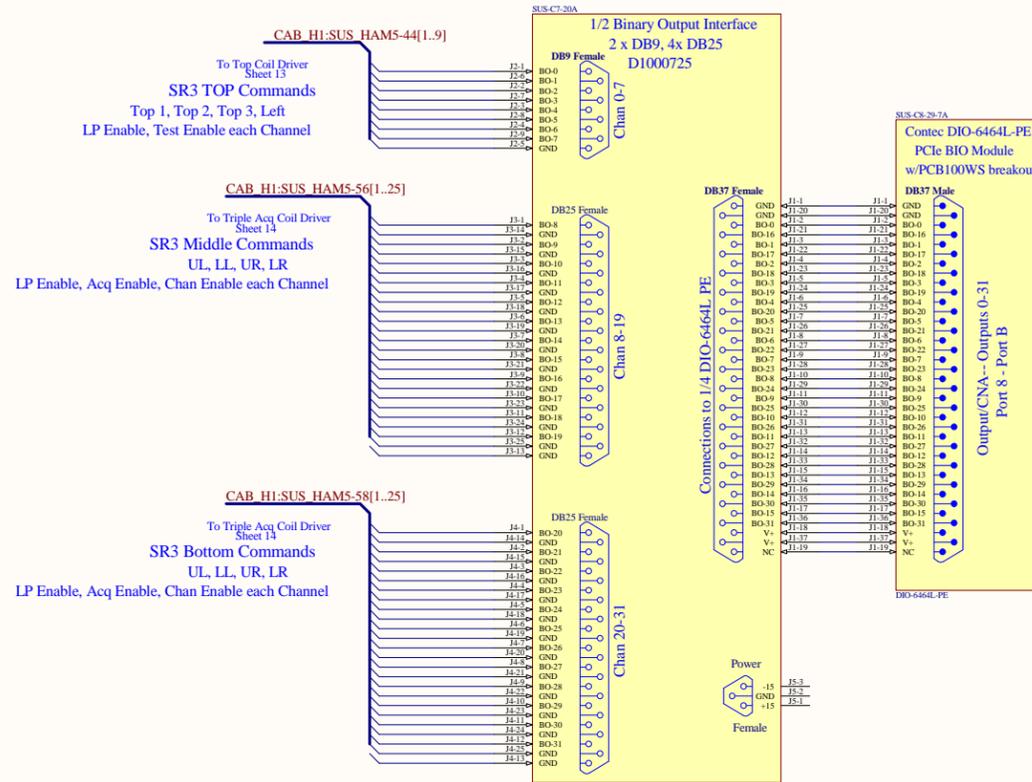
Triple Lower Stage Coil Driver Binary IO Connections



Binary IO Connections for Contec DIO-6464L-PE Module 0

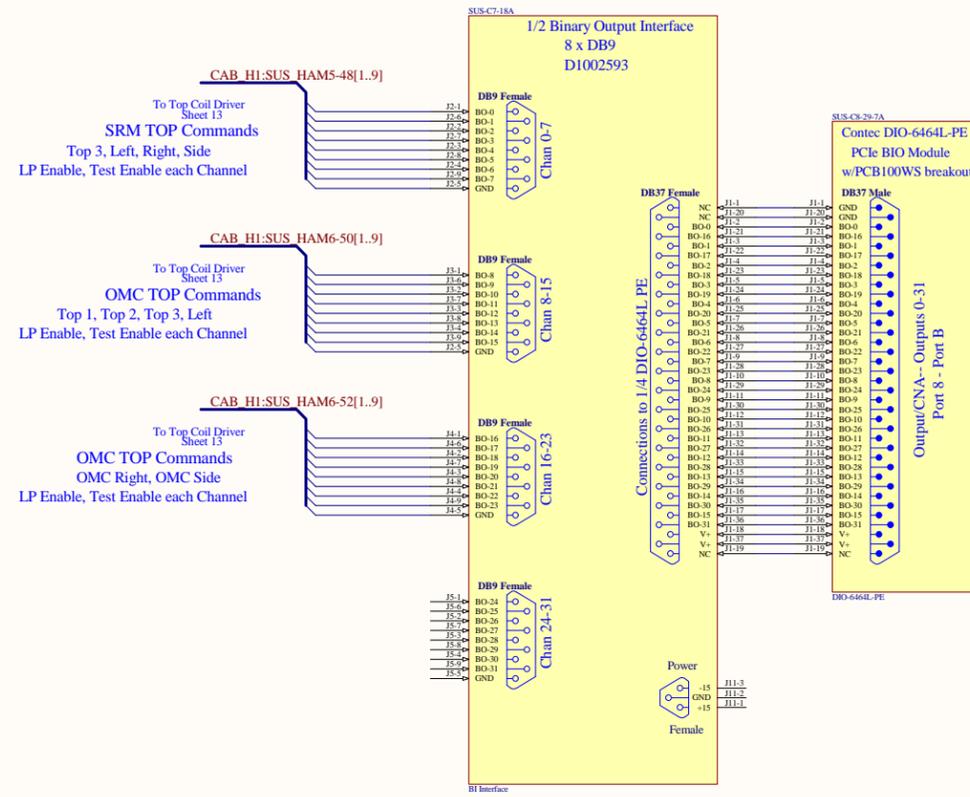
Commands--- Binary Outs

Monitors--- Binary Ins

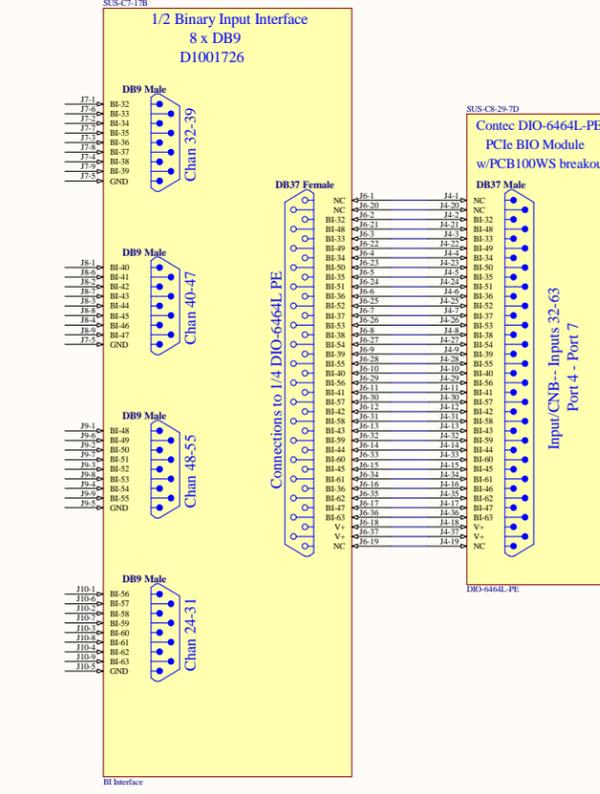
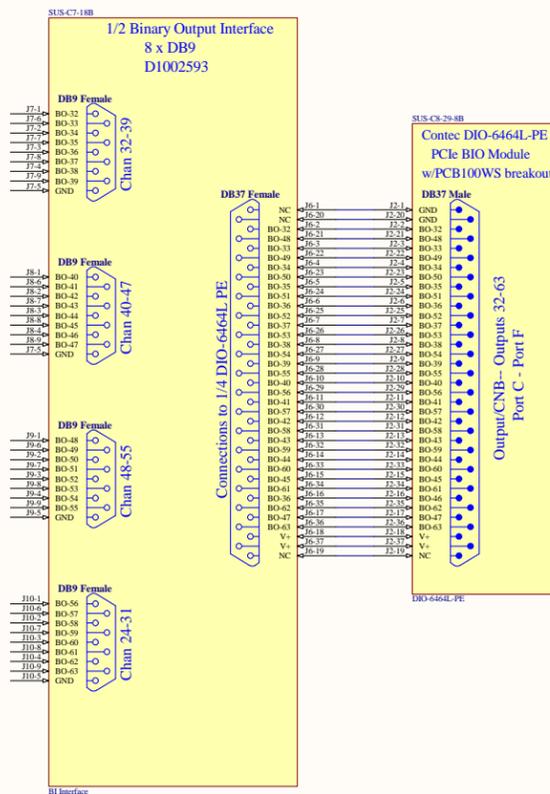
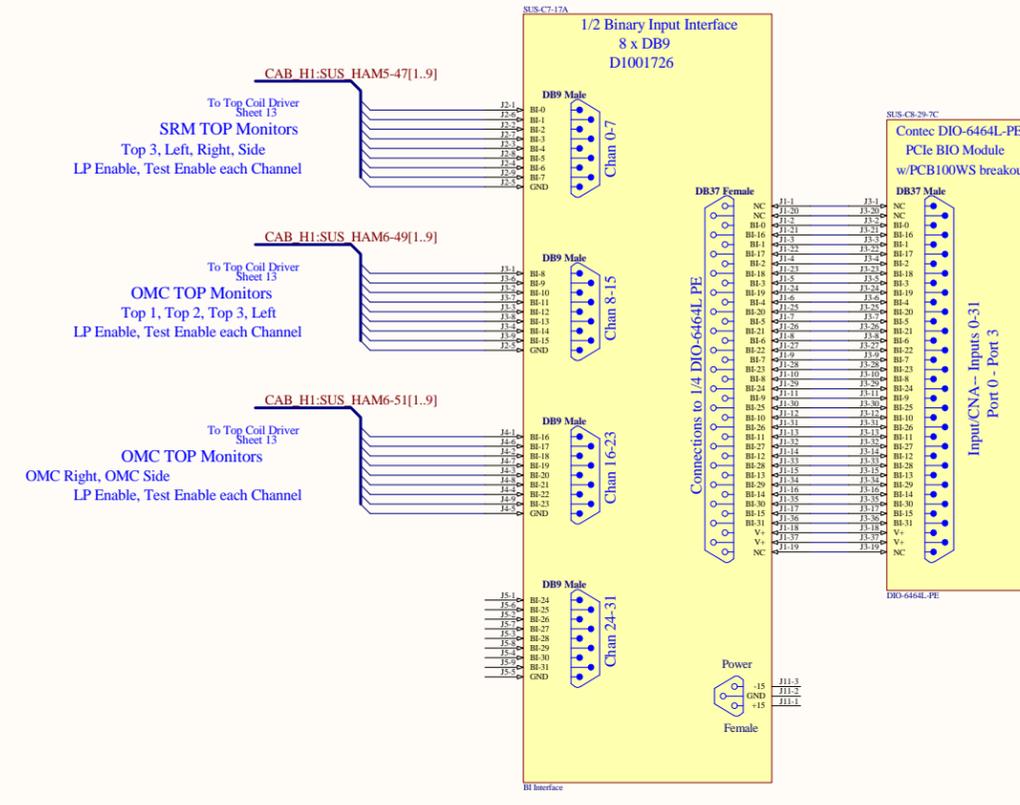


Binary IO Connections for Contec DIO-6464L-PE Module 1

Commands--- Binary Outs

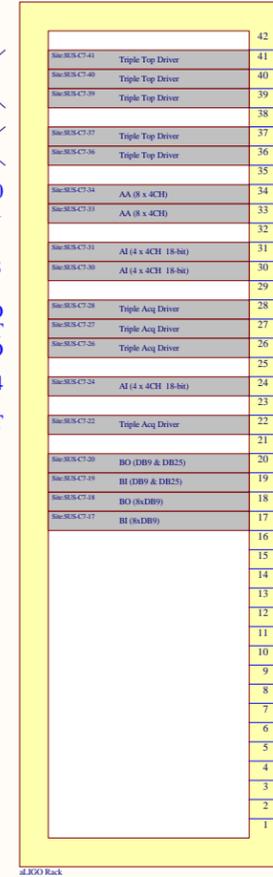


Monitors--- Binary Ins

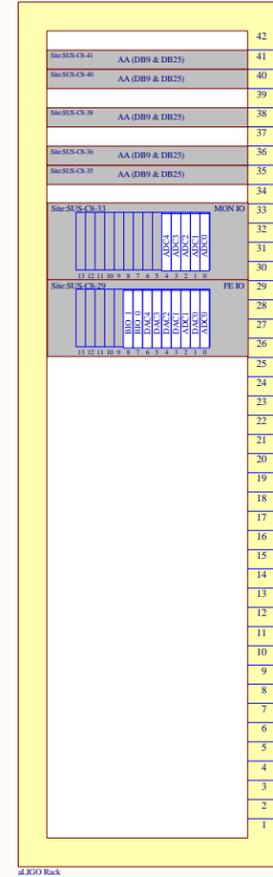


SR3 SRM TOP
 OMC TOP
 FE ADC 0
 FE ADC 1
 FE DAC0, DAC1
 FE DAC2, DAC3
 SR3 MID
 SR3 BOT
 SRM MID
 FE DAC4
 SRM BOT

Site: SUS-C7



Site: SUS-C8



MON ADC0
 MON ADC1
 MON ADC2
 MON ADC3
 MON ADC4

Need to add optical levers for HAM5, HAM6

May want to add an additional DAC and put it in the first DAC slot for the duotone FB.