



Connector panel pin description

Pin-out of all Synapse cards with their individual connections for all possible connector panels

Synapse

COPYRIGHT © 2008 AXON DIGITAL DESIGN BV

ALL RIGHTS RESERVED

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM WITHOUT THE PERMISSION OF AXON DIGITAL DESIGN BV.

VERSION 1.25



Index Connector panel pin description

(1-3)

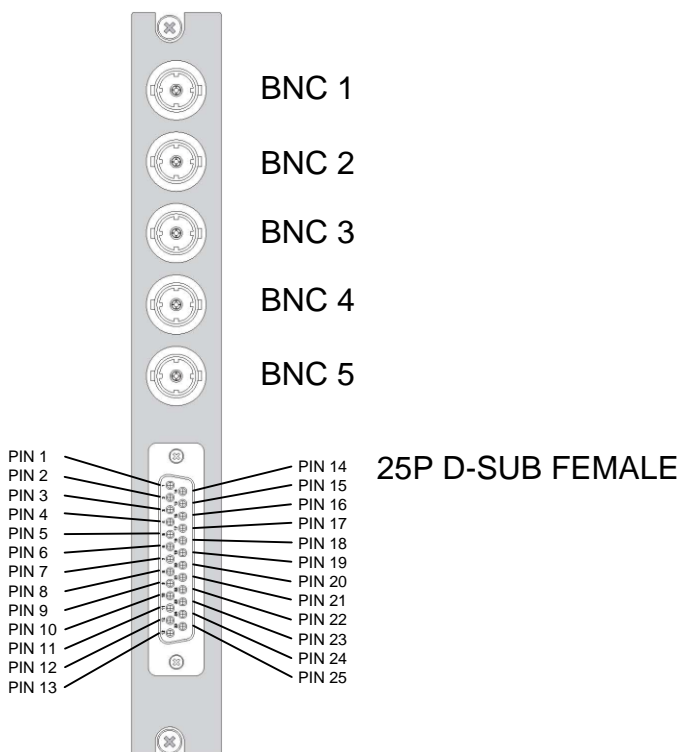
Product	Used I/O Backpanels	Page	Used I/O Backpanels	Page	Used I/O Backpanels	Page	Used I/O Backpanels	Page	Used I/O Backpanels	Page
2A148	BPL05D	7	BPX05D	48						
2AS11/12	BPL11	12								
2DB22	BPL12	14								
2DB24	BPL12	14								
2EB22	BPL12	14								
2EB24	BPL12	14								
2FS10	BPL11	12	BPX04	47						
2GF100/110	BHX17B	57	BPH17	27						
2GS100/110	BHX17B	57	BPH17	27						
2GU100/110	BHX17B	57	BPH17	27						
2HF100/110	BHX17B	57	BPH17	27						
2HS10/11	BHX05	54	BPH05	20						
2HS100/110	BHX17b	57	BPH17	27						
2HU100/110	BHX17b	57	BPH17	27						
2HX10	BHX05	54	BPH05	20						
2IM08/09/10	BPL11	12	BPX04	47						
2IX08/09/10	BPL11	12	BPX04	47						
2SF100/110	BHX17b	57	BPH17	27						
2TG100	BPH17	27								
2XG100/110	BHX17b	57	BPH17	27						
2XH100/110	BHX17b	57	BPH17	27						
AAD08	BPL06	9	BPL06M	10						
ADC20	BPL05D	7								
ADC24	BPL02D	5	BPL03D	6	BPL05D	7				
ADL24	BPL05D	7								
ADP24	BPL05D	7								
ARC 20	BPL08	11	BPX03	46						
ARC 21	BPL08	11	BPX03	46						
ARC 22	BPL08	11	BPX03	46						
AS110	BPL11	12	BPX04	47						
ASM10	BPL12	14								
DAC20	BPL02D	5	BPL05D	7						
DAC24	BPL02D	5	BPL03D	6	BPL05D	7				
DAD08	BPL05D	7								
DAD09	BPL05D	7								
DAD26	BPL05D	7	BPL05D	7						
DAS24	BPL05D	7								
DAW77	BPL11	12	BPX11	49						
DAW88	BPL11	12	BPX11	49	BPX11	49				
DAW99	BPL11	12	BPX11	49						
DBD08	BPL08	11								
DBD18	BPL11	12	BPX11	49						
DEE28	BPL11	12								
DIO24	BPL05D	7								
DIO48	BPL05D	7								
DLA41	BPX11	49								
DLA41	BPL11	12								
DLA42	BPX11	49								
DLA42	BPL11	12								
DLA43	BPX11	49								
DLA43	BPL11	12								
DLA44	BPL11	12	BPX11	49						
DSF66	BPL11	12	BPX11	49						
G/H/SDK100	BPH17	27								
G/H/SDK100/150	BHX17b	57								
G/H/SDK200/300	BHX17b	57	BPH17	27						
G/H/SFS010	BHX17b	57	BPH17	27						
G/H/SIQ200	BPH20	35	BPH21	36						
G/H/SQW200	BPH23	37	BPH24	38						
G/H/SQW220	BPH23	37	BPH24	38						
G/H3D100	BHX17b	57	BPH17	27						
G/HAF500	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HAF900	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB400	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB440	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB500	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB550	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB800	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB840	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB880	BHX18	59	BHX18D	62	BPH18D	32				
G/HDB880	BPH18	29								
G/HDB900	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB950	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDB990	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HDL100/200	BHX17b	57	BPH17	27						
G/HDS010	BHX17b	57	BPH17	27						
G/HEB400	BHX18	59	BPH18D	32						
G/HEB400	BHX18D	62	BPH18	29						
G/HEB440	BHX18D	62	BPH18D	32						
G/HEB440	BHX18	59	BPH18	29						
G/HEB500	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HEB550	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HEB800	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HEB840	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HEB880	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HEB900	BHX18D	62	BHX18D	62	BPH18	29	BPH18D	32		
G/HEB950	BHX18	59	BHX18D	62	BHX18D	62	BPH18	29	BPH18D	32
G/HEB990	BHX18	59	BPH18	29	BPH18D	32				
G/HED100/130	BHX18D	62	BPH18D	32						
G/HEP100	BPH18D	32								



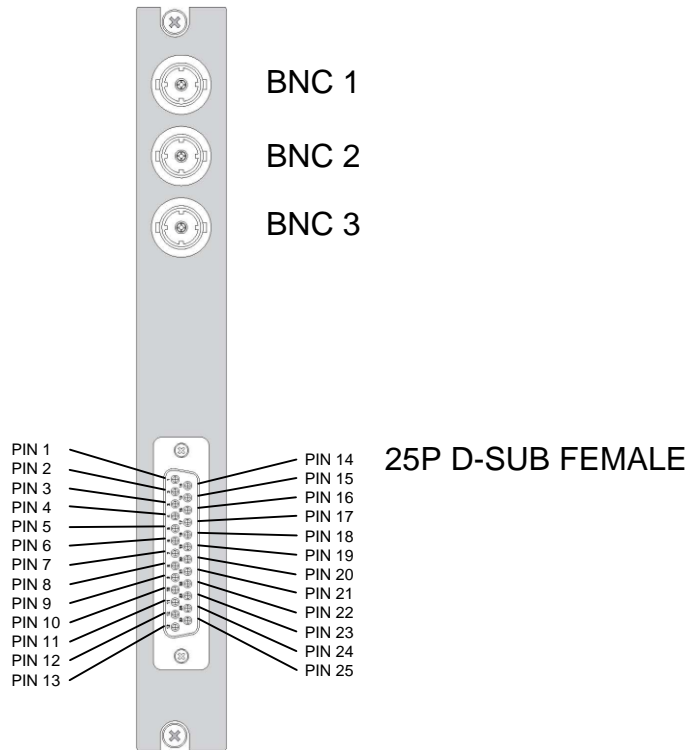
Index Connector panel pin description

(2-3)

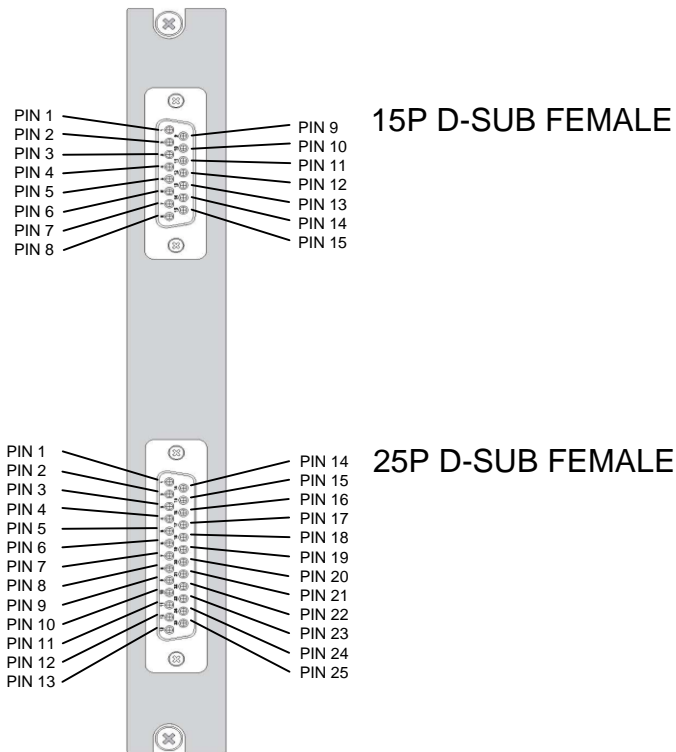
Product	Used I/O Backpanels	Page	Used I/O Backpanels	Page	Used I/O Backpanels	Page	Used I/O Backpanels	Page	Used I/O Backpanels	Page
G/HEP100/130	BHX18D	62								
G/HIX010	BHX17B	57	BPH17	27						
G/HIX100/110	BHX17B	57	BPH17	27						
G/HJA420/440	BPH18D	32								
G/HJA840/880	BPH18D	32								
G/HMV200	BPH23	37	BPH24	38						
G/HMV220	BPH23	37	BPH24	38						
G/HMW100	BPH23	37	BPH24	38						
G/HPD100	BPH18D	32								
G/HPD100/130	BHX18D	62								
G/HRB100	BHX18D	62	BPH18D	32	BPH18D	32				
G/HRB440	BPH18D	32								
G/HRB550	BHX18	59	BPH18	29	BPH18D	32				
G/HRB590	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRB950	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRB990	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRF050	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRF090	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRF500	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRF550	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRF590	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRF900	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRF950	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HRF990	BHX18	59	BHX18D	62	BPH18	29	BPH18D	32		
G/HSU010	BHX17B	57	BPH17	27						
GAW010/100/110/300	BHX18D	62	BPH18D	32						
GDR216	BPH37	40	BPH38	41	BPH39	42	BPH42	43	BHX42	66
GDR26	BHX17A	56	BHX17B	57	BPH17	27				
GDS100/110	BHX17B	57	BPH17	27						
GMV200	BPH15	25	BPH16	26						
GPI16	BPL06	9								
GQW200	BPH15	25	BPH16	26						
GSU100/110	BHX17B	57								
GSU100/110	BPH17	27								
GSU150/160	BHX17B	57	BPH17	27						
GXG/HX010	BHX17B	57	BPH17	27						
GXG100/110	BHX17B	57								
GXG150/160	BHX17B	57	BPH17	27	BPH17	27				
GXT010/100/110	BHX17B	57	BPH17	27						
H/HJA420/400	BHX18D	62								
H/HJA840/880	BHX18D	62								
HAS10/30	BHX03	51								
HAS10/30	BPH03	16								
HAS20	BHX02D	50	BPH02D	15						
HAW010/100/110/300	BHX18D	62	BPH18D	32						
HCL10	BHX03	51	BPH03	16						
HDB05/20	BHX02D	50	BPH02D	15						
HDB10	BPH02D	15								
HDR07	BHX17	55								
HDS05/10	BPH03	16								
HDS10	BHX03	51								
HDS100/110	BHX17B	57	BPH17	27						
HDS20/21	BHX03	51	BPH03	16						
HDW10	BPH10	21	BPH11	22						
HEB05/20	BHX02D	50	BPH02D	15						
HEB10	BPH02D	15								
HFS100/110	BHX17B	57	BPH17	27						
HLD100	BHX27	65								
HLI20	BHX04	52	BPH04	18						
HMV200	BPH15	25	BPH16	26						
HNS400	BPH17	27	BHX17b	57						
HQW10	BPH10	21	BPH11	22						
HQW15	BPH12	23	BPH14	24						
HQW200	BPH15	25	BPH16	26						
HSI10	BHX04	52	BPH04	18						
HSI11	BHX04	52	BPH04	18						
HSI12	BHX04	52	BPH04	18						
HSI20	BHX04	52	BPH04	18						
HSI21	BHX04	52	BPH04	18						
HSS10	BHX04	52	BPH04	18						
HSU05/10/11	BHX03	51								
HSU05/10/11	BPH03	16								
HSU100/110	BHX17B	57	BPH17	27						
HSU150/160	BHX17B	57	BPH17	27						
HSU20/21	BHX03	51	BPH03	16						
HSU30/31	BHX03	51	BPH03	16						
HTI10	BHX04	52	BPH04	18						
HVO10	BHX02D	50	BPH02D	15						
HXH100/110	BHX17B	57	BPH17	27						
HXH150/160	BHX17B	57	BPH17	27						
HXH20/21	BHX03	51	BPH03	16						
HXH30/31	BHX03	51	BPH03	16						
HXH40/41	BHX03	51	BPH03	16						
HXT010/100/110	BHX17B	57	BPH17	27						
HXT10 / 12	BHX05	54	BPH05	20						
INS21	BPL12	14								
INS30	BHX04	52	BPH04	18						
INS400	BHX17B	57	BPH17	27						
PBS03	BPH02	45	BPH02	45						
SAM08	BPA09	44								



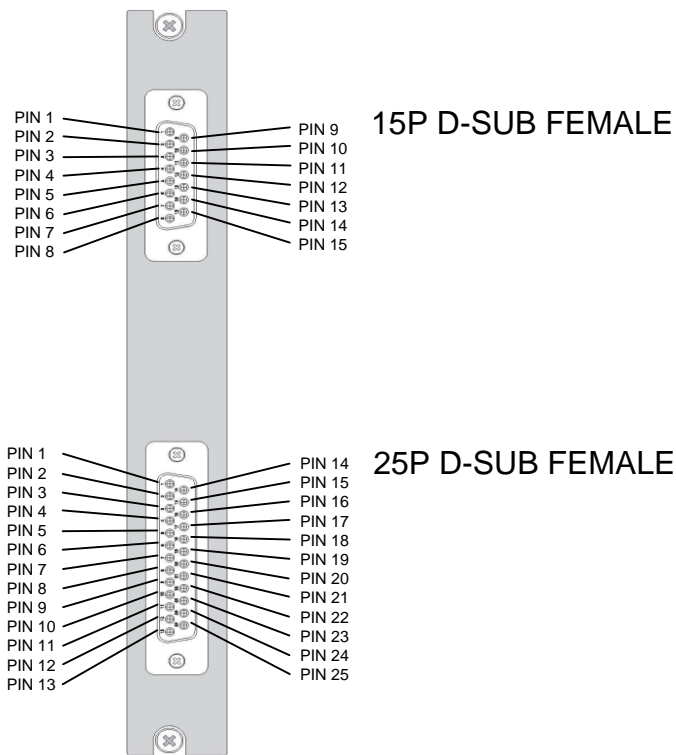
	ADC24	DAC20	DAC24	SEB15	SEB20	SDB15	SDB20
BNC 1	TRACKING	NC	NC	SDI IN	SDI IN	SDI IN	SDI IN
BNC 2	AES/EBU IN	NC	AES/EBU IN	SDI + EMB. OUT	SDI + EMB. OUT	RECLK SDI OUT	RECLK SDI OUT
BNC 3	AES/EBU IN	NC	AES/EBU IN	SDI + EMB. OUT	SDI + EMB. OUT	RECLK SDI OUT	RECLK SDI OUT
BNC 4	AES/EBU OUT	NC	AES/EBU OUT	NC	AES/EBU IN	NC	AES/EBU OUT
BNC 5	AES/EBU OUT	NC	AES/EBU OUT	NC	AES/EBU IN	NC	AES/EBU OUT
25P D-SUB FEMALE							
PIN 1	NC	NC	NC	NC	NC	NC	NC
PIN 2	NC	NC	NC	NC	NC	NC	NC
PIN 3	GND	GND	GND	GND	GND	GND	GND
PIN 4	GND	GND	GND	GND	GND	GND	GND
PIN 5	GND	GND	GND	GND	GND	GND	GND
PIN 6	GND	GND	GND	GND	GND	GND	GND
PIN 7	A1neg IN	A1neg OUT	A1neg OUT	A1neg IN	A1neg IN	A1neg OUT	A1neg OUT
PIN 8	A1pos IN	A1pos OUT	A1pos OUT	A1pos IN	A1pos IN	A1pos OUT	A1pos OUT
PIN 9	GND	GND	GND	GND	GND	GND	GND
PIN 10	A3neg IN	A3neg OUT	A3neg OUT	A3neg IN	A3neg IN	A3neg OUT	A3neg OUT
PIN 11	A3pos IN	A3pos OUT	A3pos OUT	A3pos IN	A3pos IN	A3pos OUT	A3pos OUT
PIN 12	GND	GND	GND	GND	GND	GND	GND
PIN 13	GND	GND	GND	GND	GND	GND	GND
PIN 14	GND	GND	GND	GND	GND	GND	GND
PIN 15	NC	NC	NC	NC	NC	NC	NC
PIN 16	NC	NC	NC	NC	NC	NC	NC
PIN 17	GND	GND	GND	GND	GND	GND	GND
PIN 18	GND	GND	GND	GND	GND	GND	GND
PIN 19	GND	GND	GND	GND	GND	GND	GND
PIN 20	GND	GND	GND	GND	GND	GND	GND
PIN 21	A2neg IN	A2neg OUT	A2neg OUT	A2neg IN	A2neg IN	A2neg OUT	A2neg OUT
PIN 22	A2pos IN	A2pos OUT	A2pos OUT	A2pos IN	A2pos IN	A2pos OUT	A2pos OUT
PIN 23	GND	GND	GND	GND	GND	GND	GND
PIN 24	A4neg IN	A4neg OUT	A4neg OUT	A4neg IN	A4neg IN	A4neg OUT	A4neg OUT
PIN 25	A4pos IN	A4pos OUT	A4pos OUT	A4pos IN	A4pos IN	A4pos OUT	A4pos OUT



	ADC24	DAC24	SEB10	SEB11	SEB20	SDB10	SDB20
BNC 1	TRACKING	NC	SDI IN	SDI IN	SDI IN	SDI IN	SDI IN
BNC 2	AES/EBU IN	AES/EBU IN	SDI + EMB OUT	SDI + EMB OUT	SDI + EMB OUT	RECLK SDI OUT	RECLK SDI OUT
BNC 3	AES/EBU IN	AES/EBU IN	SDI + EMB OUT	SDI + EMB OUT	SDI + EMB OUT	RECLK SDI OUT	RECLK SDI OUT
25P D-SUB FEMALE							
PIN 1	AES1- OUT	AES1- OUT	AES1- IN	AES1- IN	AES1- IN	AES1+ OUT	AES1+ OUT
PIN 2	AES1+ OUT	AES1+ OUT	AES1+ IN	AES1+ IN	AES1+ IN	AES1- OUT	AES2- OUT
PIN 3	GND	GND	GND	GND	GND	GND	GND
PIN 4	GND	GND	GND	GND	GND	GND	GND
PIN 5	GND	GND	GND	GND	GND	GND	GND
PIN 6	GND	GND	GND	GND	GND	GND	GND
PIN 7	A1neg IN	A1neg OUT	NC	NC	A1neg IN	NC	A1neg OUT
PIN 8	A1pos IN	A1pos OUT	NC	NC	A1pos IN	NC	A1pos OUT
PIN 9	GND	GND	GND	GND	GND	GND	GND
PIN 10	A3neg IN	A3neg OUT	NC	NC	A3neg IN	NC	A3neg OUT
PIN 11	A3pos IN	A3pos OUT	NC	NC	A3pos IN	NC	A3pos OUT
PIN 12	GND	GND	GND	GND	GND	GND	GND
PIN 13	GND	GND	GND	GND	GND	GND	GND
PIN 14	GND	GND	GND	GND	GND	GND	GND
PIN 15	AES2+ OUT	AES2+ OUT	AES2- IN	AES2- IN	AES2- IN	AES2+ OUT	AES2+ OUT
PIN 16	AES2- OUT	AES2- OUT	AES2+ IN	AES2+ IN	AES2+ IN	AES2- OUT	AES2- OUT
PIN 17	GND	GND	GND	GND	GND	GND	GND
PIN 18	GND	GND	GND	GND	GND	GND	GND
PIN 19	GND	GND	GND	GND	GND	GND	GND
PIN 20	GND	GND	GND	GND	GND	GND	GND
PIN 21	A2neg IN	A2neg OUT	NC	NC	A2neg IN	NC	A2neg OUT
PIN 22	A2pos IN	A2pos OUT	NC	NC	A2pos IN	NC	A2pos OUT
PIN 23	GND	GND	GND	GND	GND	GND	GND
PIN 24	A4neg IN	A4neg OUT	NC	NC	A4neg IN	NC	A4neg OUT
PIN 25	A4pos IN	A4pos OUT	NC	NC	A4pos IN	NC	A4pos OUT



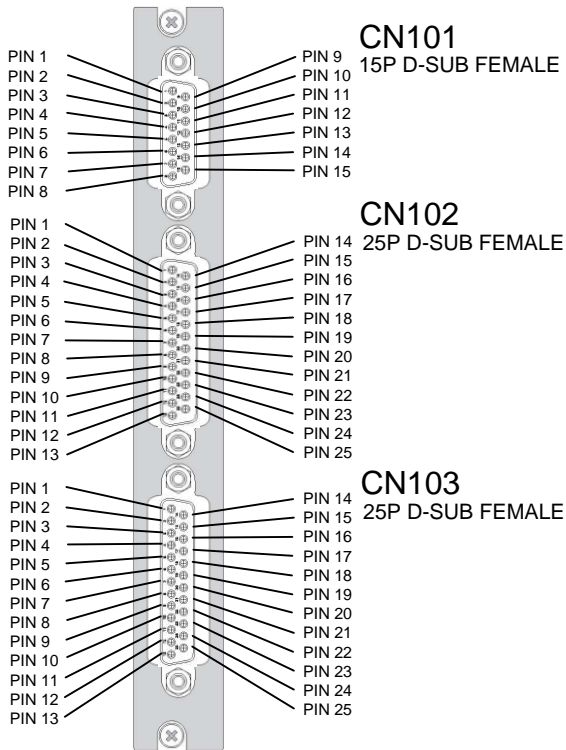
	ADC20	ADC24	DAC20	DAC24	ADL24	ADP24	DAS24
15P D-SUB FEMALE							
PIN 1	NC	GND	NC	GND	NC	GND	GND
PIN 2	NC	GND	NC	GND	NC	GND	GND
PIN 3	TRACKING	TRACKING	TRACKING	NC	TRACKING	GPI (VOICE-OVER)	NC
PIN 4	NC	NC	NC	NC	NC	NC	NC
PIN 5	NC	NC	NC	NC	NC	NC	NC
PIN 6	NC	NC	NC	NC	NC	NC	NC
PIN 7	NC	NC	NC	NC	NC	NC	NC
PIN 8	NC	NC	NC	NC	NC	NC	NC
PIN 9	GND	GND	GND	GND	GND	GND	GND
PIN 10	NC	NC	NC	NC	NC	NC	NC
PIN 11	NC	NC	NC	NC	NC	NC	NC
PIN 12	NC	NC	NC	NC	NC	NC	NC
PIN 13	NC	NC	NC	NC	NC	NC	NC
PIN 14	NC	NC	NC	NC	NC	NC	NC
PIN 15	NC	NC	NC	NC	NC	NC	NC
25P D-SUB FEMALE							
PIN 1	A1neg IN	AES1- IN	NC	AES1- IN	A1neg IN	AES1- IN	AES1- IN
PIN 2	A1pos IN	AES1+ IN	NC	AES1+ IN	A1pos IN	AES1+ IN	AES1+ IN
PIN 3	GND	GND	GND	GND	GND	GND	GND
PIN 4	A3neg IN	AES1- OUT	NC	AES1- OUT	A3neg IN	AES1- OUT	AES1- OUT
PIN 5	A3pos IN	AES1+ OUT	NC	AES1+ OUT	A3pos IN	AES1+ OUT	AES1+ OUT
PIN 6	GND	GND	GND	GND	GND	GND	GND
PIN 7	NC	A1neg IN	A1neg OUT	A1neg OUT	A1neg OUT	NC	NC
PIN 8	NC	A1pos IN	A1pos OUT	A1pos OUT	A1pos OUT	NC	NC
PIN 9	GND	GND	GND	GND	GND	GND	GND
PIN 10	NC	A3neg IN	A3neg OUT	A3neg OUT	A3neg OUT	NC	NC
PIN 11	NC	A3pos IN	A3pos OUT	A3pos OUT	A3pos OUT	NC	NC
PIN 12	GND	GND	GND	GND	GND	GND	GND
PIN 13	GND	GND	GND	GND	GND	GND	GND
PIN 14	GND	GND	GND	GND	GND	GND	GND
PIN 15	A2neg IN	AES2- IN	NC	AES2- IN	A2neg IN	AES2- IN	AES2- IN
PIN 16	A2pos IN	AES2+ IN	NC	AES2+ IN	A2pos IN	AES2+ IN	AES2+ IN
PIN 17	GND	GND	GND	GND	GND	GND	GND
PIN 18	A4neg IN	AES2+ OUT	NC	AES2+ OUT	A4neg IN	AES2+ OUT	AES2+ OUT
PIN 19	A4pos IN	AES2- OUT	NC	AES2- OUT	A4pos IN	AES2- OUT	AES2- OUT
PIN 20	GND	GND	GND	GND	GND	GND	GND
PIN 21	NC	A2neg IN	A2neg OUT	A2neg OUT	A2neg OUT	NC	NC
PIN 22	NC	A2pos IN	A2pos OUT	A2pos OUT	A2pos OUT	NC	NC
PIN 23	GND	GND	GND	GND	GND	GND	GND
PIN 24	NC	A4neg IN	A4neg OUT	A4neg OUT	A4neg OUT	NC	NC
PIN 25	NC	A4pos IN	A4pos OUT	A4pos OUT	A4pos OUT	NC	NC



DIO24 DIO48 DAD08 DAD09 DAD26 2A148

15P D-SUB FEMALE						
PIN 1	GND	GND	AES/EBU IN (+)	AES/EBU IN (+)	NC	GND
PIN 2	GND	GND	AES/EBU IN (-)	AES/EBU IN (-)	NC	GND
PIN 3	TRACKING	TRACKING	NC	NC	GPI I/O	TRACKING
PIN 4	NC	NC	NC	NC	NC	NC
PIN 5	NC	NC	NC	NC	NC	NC
PIN 6	NC	NC	NC	NC	NC	NC
PIN 7	NC	NC	NC	NC	NC	NC
PIN 8	NC	NC	NC	NC	NC	NC
PIN 9	GND	GND	GND	GND	GND	GND
PIN 10	NC	NC	NC	NC	NC	NC
PIN 11	NC	NC	NC	NC	NC	NC
PIN 12	NC	NC	NC	NC	NC	NC
PIN 13	NC	NC	NC	NC	NC	NC
PIN 14	NC	NC	NC	NC	NC	NC
PIN 15	NC	NC	NC	NC	NC	NC

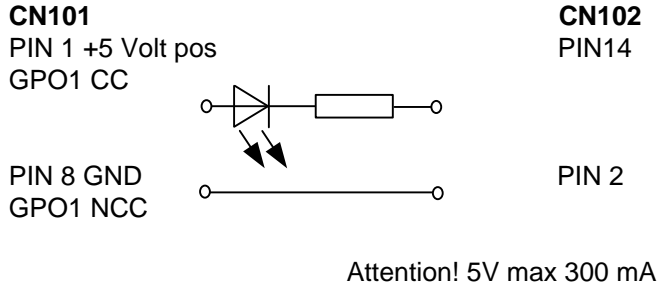
25P D-SUB FEMALE						
PIN 1	AES1- IN	AES1- IN	AES1+ OUT	AES1 - OUT	AES1+ IN	AES1/2- IN
PIN 2	AES1+ IN	AES1+ IN	AES1- OUT	AES1+ OUT	AES1 - IN	AES1/2+ IN
PIN 3	GND	GND	GND	GND	GND	GND
PIN 4	AES1- OUT	AES3- IN	AES3+ OUT	AES3 - OUT	AES2+ OUT	AES5/6- IN
PIN 5	AES1+ OUT	AES3+ IN	AES3- OUT	AES3+ OUT	AES2 - OUT	AES5/6+ IN
PIN 6	GND	GND	GND	GND	GND	GND
PIN 7	NC	AES1 + OUT	AES5+ OUT	AES5 - OUT	AES2+ IN	AES1/2 + OUT
PIN 8	NC	AES1 - OUT	AES5- OUT	AES5+ OUT	AES2 - IN	AES1/2 - OUT
PIN 9	GND	GND	GND	GND	GND	GND
PIN 10	NC	AES3 + OUT	AES7+ OUT	AES7 - OUT	AES5+ OUT	AES5/6 + OUT
PIN 11	NC	AES3 - OUT	AES7- OUT	AES7+ OUT	AES5 - OUT	AES5/6 - OUT
PIN 12	GND	GND	GND	GND	GND	GND
PIN 13	GND	GND	GND	GND	GND	GND
PIN 14	GND	GND	GND	GND	GND	GND
PIN 15	AES2- IN	AES2- IN	AES2- OUT	AES2+ OUT	AES1+ OUT	AES3/4- IN
PIN 16	AES2+ IN	AES2+ IN	AES2+ OUT	AES2 - OUT	AES1 - OUT	AES3/4+ IN
PIN 17	GND	GND	GND	GND	GND	GND
PIN 18	AES2+ OUT	AES4- IN	AES4- OUT	AES4+ OUT	AES3+ OUT	AES7/8- IN
PIN 19	AES2- OUT	AES4+ IN	AES4+ OUT	AES4 - OUT	AES3 - OUT	AES7/8+ IN
PIN 20	GND	GND	GND	GND	GND	GND
PIN 21	NC	AES2+ OUT	AES6- OUT	AES6+ OUT	AES4+ OUT	AES3/4+ OUT
PIN 22	NC	AES2 - OUT	AES6+ OUT	AES6 - OUT	AES4 - OUT	AES3/4 - OUT
PIN 23	GND	GND	GND	GND	GND	GND
PIN 24	NC	AES4+ OUT	AES8- OUT	AES8+ OUT	AES6+ OUT	AES7/8+ OUT
PIN 25	NC	AES4 - OUT	AES8+ OUT	AES8 - OUT	AES6 - OUT	AES7/8 - OUT



GPI16 Connection Diagram

CN101
 PIN 15 MUST BE CONNECTED WITH GROUND PIN 8
 GPI (X)+ MUST BE CONNECTED BY A SWITCHING CONTACT TO +5V PIN 1 WHEN USED AS AN INPUT
 GPI 9- & GPI 10- MUST BE CONNECTED TO GROUND PIN 8

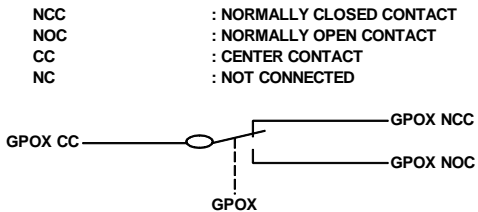
CN102 AND 103 (A POSSIBLE FIELD APPLICATION)



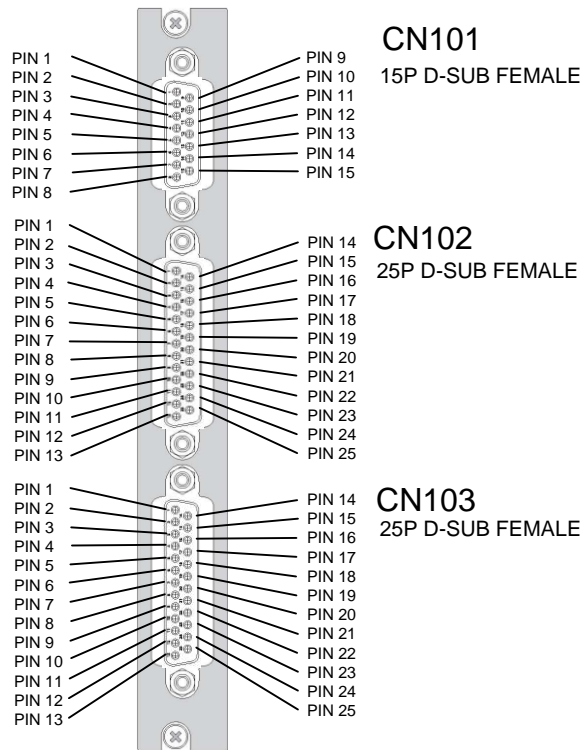
Attention! 5V max 300 mA

CC :CENTER CONTACT
 NCC :NORMALLY CLOSED CONTACT
 NOC :NORMALLY OPEN CONTACT
 NC :NOT CONNECTED

GPI16		AAD08
15P D-SUB FEMALE CN101		
PIN 1	5 Volt pos	CHA- IN
PIN 2	GPI 2 +	CHA+ IN
PIN 3	GPI 4 +	GND
PIN 4	GPI 6 +	GND
PIN 5	GPI 8 +	GND
PIN 6	GND (GPI 9-)	GND
PIN 7	GND (GPI10 -)	CHB- LOOP
PIN 8	GND	CHB+ LOOP
PIN 9	GPI 1 +	GND
PIN 10	GPI 3 +	CHA- LOOP
PIN 11	GPI 5 +	CHA+ LOOP
PIN 12	GPI 7 +	GND
PIN 13	GPI 9 +	CHB- IN
PIN 14	GPI 10 +	CHB+ IN
PIN 15	COMMON (GPI 1 TO 8)	GND
25P D-SUB FEMALE CN102		
		OUTPUT
PIN 1	GPO1 NCC	CHA+
PIN 2	GPO1 NOC	CHA-
PIN 3	GPO2 CC	GND
PIN 4	GPO3 NCC	CHB+
PIN 5	GPO3 NOC	CHB-
PIN 6	GPO4 CC	GND
PIN 7	GPO5 NCC	CHA+
PIN 8	GPO5 NOC	CHA-
PIN 9	GPO6 CC	GND
PIN 10	GPO7 NCC	CHB+
PIN 11	GPO7 NOC	CHB-
PIN 12	GPO8 CC	GND
PIN 13	NC	GND
PIN 14	GPO1 CC	GND
PIN 15	GPO2 NCC	CHA+
PIN 16	GPO2 NOC	CHA-
PIN 17	GPO3 CC	GND
PIN 18	GPO4 NCC	CHB+
PIN 19	GPO4 NOC	CHB-
PIN 20	GPO5 CC	GND
PIN 21	GPO6 NCC	CHA+
PIN 22	GPO6 NOC	CHA-
PIN 23	GPO7 CC	GND
PIN 24	GPO8 NCC	CHB+
PIN 25	GPO8 NOC	CHB-



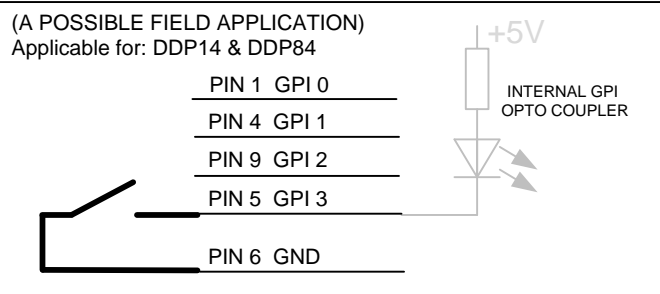
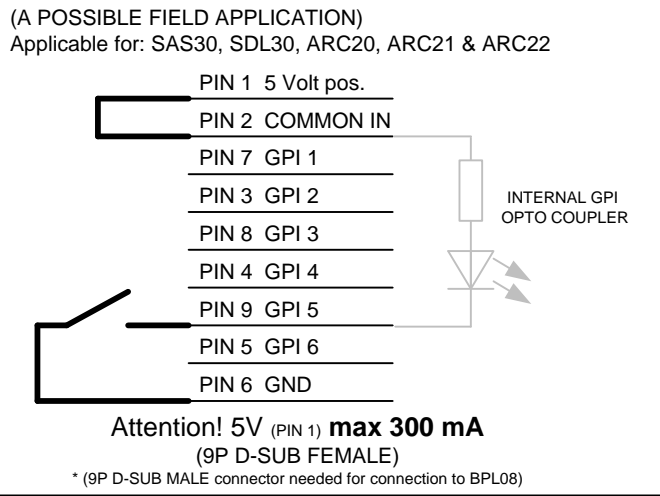
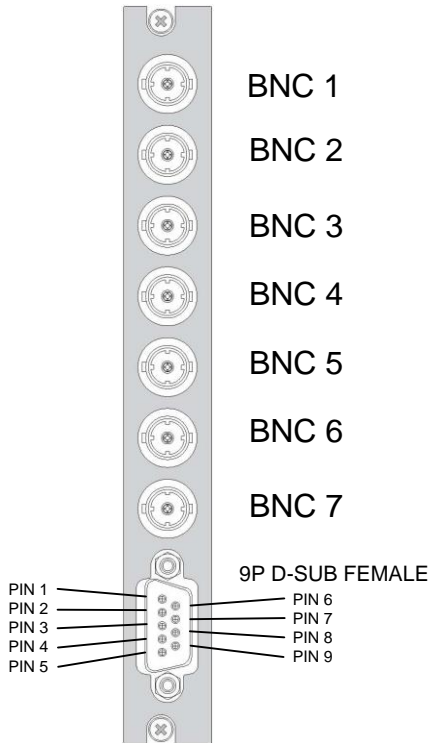
GPI16		AAD08
25P D-SUB FEMALE CN103		
		OUTPUT
PIN 1	GPO9 NCC	CHA+
PIN 2	GPO9 NOC	CHA-
PIN 3	GPO10 CC	GND
PIN 4	GPO11 NCC	CHB+
PIN 5	GPO11 NOC	CHB-
PIN 6	GPO12 CC	GND
PIN 7	GPO13 NCC	CHA+
PIN 8	GPO13 NOC	CHA-
PIN 9	GPO14 CC	GND
PIN 10	GPO15 NCC	CHB+
PIN 11	GPO15 NOC	CHB-
PIN 12	GPO16 CC	GND
PIN 13	NC	GND
PIN 14	GPO9 CC	GND
PIN 15	GPO10 NCC	CHA+
PIN 16	GPO10 NOC	CHA-
PIN 17	GPO11 CC	GND
PIN 18	GPO12 NCC	CHB+
PIN 19	GPO12 NOC	CHB-
PIN 20	GPO13 CC	GND
PIN 21	GPO14 NCC	CHA+
PIN 22	GPO14 NOC	CHA-
PIN 23	GPO15 CC	GND
PIN 24	GPO16 NCC	CHB+
PIN 25	GPO16 NOC	CHB-



AAD08	
15P D-SUB FEMALE	
CN101	
PIN 1	CHA- IN
PIN 2	CHA+ IN
PIN 3	GND
PIN 4	GND
PIN 5	GND
PIN 6	GND
PIN 7	CHB- LOOP
PIN 8	CHB+ LOOP
PIN 9	GND
PIN 10	CHA- LOOP
PIN 11	CHA+ LOOP
PIN 12	GND
PIN 13	CHB- IN
PIN 14	CHB+ IN
PIN 15	GND
25P D-SUB FEMALE	OUTPUT
CN102	
PIN 1	CHA+
PIN 2	CHA-
PIN 3	GND
PIN 4	CHA+
PIN 5	CHA-
PIN 6	GND
PIN 7	CHA+
PIN 8	CHA-
PIN 9	GND
PIN 10	CHA+
PIN 11	CHA-
PIN 12	GND
PIN 13	GND
PIN 14	GND
PIN 15	CHA+
PIN 16	CHA-
PIN 17	GND
PIN 18	CHA+
PIN 19	CHA-
PIN 20	GND
PIN 21	CHA+
PIN 22	CHA-
PIN 23	GND
PIN 24	CHA+
PIN 25	CHA-

AAD08	
25P D-SUB FEMALE	
CN103	
PIN 1	CHB+
PIN 2	CHB-
PIN 3	GND
PIN 4	CHB+
PIN 5	CHB-
PIN 6	GND
PIN 7	CHB+
PIN 8	CHB-
PIN 9	GND
PIN 10	CHB+
PIN 11	CHB-
PIN 12	GND
PIN 13	GND
PIN 14	GND
PIN 15	CHB+
PIN 16	CHB-
PIN 17	GND
PIN 18	CHB+
PIN 19	CHB-
PIN 20	GND
PIN 21	CHB+
PIN 22	CHB-
PIN 23	GND
PIN 24	CHB+
PIN 25	CHB-

Connection Diagram

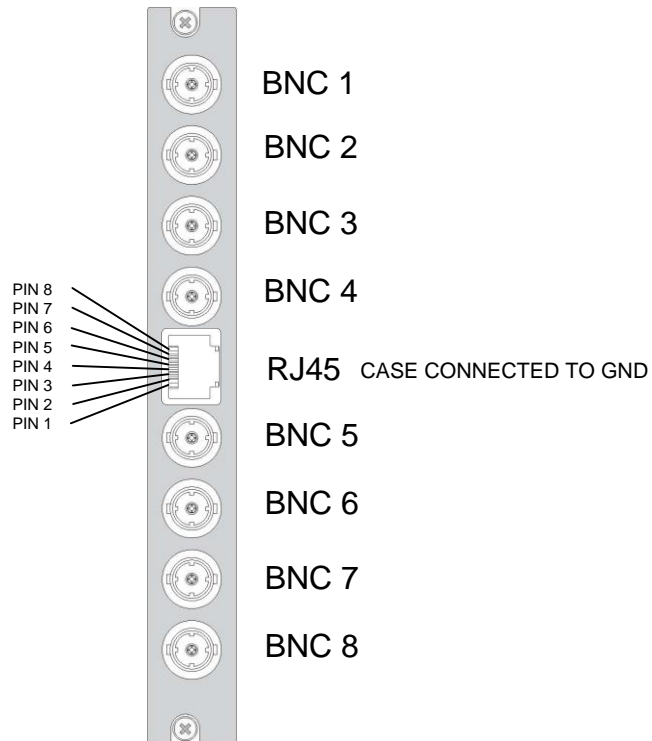


	SAS30	SDL30	SVD10	ARC 20	ARC 21	ARC 22	DBD08
BNC 1	SDI IN	SDI IN	SDI IN	SDI IN	SDI IN	SDI IN	DOLBY E IN
BNC 2	RECLK SDI OUT	RECLK SDI OUT	RECLK SDI OUT	RECLK SDI OUT	RECLK SDI OUT	RECLK SDI OUT	AES1 OUT
BNC 3	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	AES2 OUT
BNC 4	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	AES3 OUT
BNC 5	NC	G/Y/Cv	G/Y/Cv	G/Y/Cv	G/Y/Cv	G/Y/Cv	AES4 OUT
BNC 6	NC	B/Cb/Y	B/Cb/Y	B/Cb/Y	B/Cb/Y	B/Cb/Y	MONITOR OUT
BNC 7	NC	R/Cr/C	R/Cr/C	R/Cr/C	R/Cr/C	R/Cr/C	LTC

9P. D. SUB FEMALE							
PIN 1	5 Volt pos.	5 Volt pos.	NC	5 Volt pos.	5 Volt pos.	5 Volt pos.	GND
PIN 2	COMMON IN	COMMON IN	NC	COMMON IN	COMMON IN	COMMON IN	NC
PIN 3	GPI 2	GPI 2	NC	GPI 2	GPI 2	GPI 2	TXA 2(+) OUT (Meta Data)
PIN 4	GPI 4	GPI 4	NC	GPI 4	GPI 4	GPI 4	GND
PIN 5	GPI 6	GPI 6	NC	GPI 6	GPI 6	GPI 6	NC
PIN 6	GND	GND	NC	GND	GND	GND	GND
PIN 7	GPI 1	GPI 1	NC	GPI 1	GPI 1	GPI 1	NC
PIN 8	GPI 3	GPI 3	NC	GPI 3	GPI 3	GPI 3	TXB 2(-) OUT (Meta Data)
PIN 9	GPI 5	GPI 5	NC	GPI 5	GPI 5	GPI 5	GND

	DBE08	DDE51	DDP14	DDP84
BNC 1	DOLBY E OUT	DOLBY E OUT	AES1 IN	AES1 IN
BNC 2	AES1 IN	AES1 IN	AES2 IN	AES2 IN
BNC 3	AES2 IN	AES2 IN	AES3 IN	AES3 IN
BNC 4	AES3 IN	AES3 IN	AES4 IN	AES4 IN
BNC 5	AES4 IN	AES4 IN	DOLBY E IN	DOLBY E IN
BNC 6	AUX OUT	AUX OUT	DOLBY OUT 1	DOLBY OUT 1
BNC 7	LTC	LTC	DOLBY OUT 2	DOLBY OUT 2

9P. D. SUB FEMALE				
PIN 1	GND	GND	GPI 0	GPI 0
PIN 2	NC	TXA 2(+) OUT	TXA 2(+) OUT	TXA 2(+) OUT
PIN 3	RXA 2(+) IN (Meta Data)	RXA 2(+) IN	RXA 2(+) IN	RXA 2(+) IN
PIN 4	GND	GND	GPI 1	GPI 1
PIN 5	NC	NOT USED	GPI 3	GPI 3
PIN 6	GND	GND	GND	GND
PIN 7	NC	TXB 2(-) OUT	TXB 2(-) OUT	TXB 2(-) OUT
PIN 8	RXB 2(-) IN (Meta Data)	RXB 2(-) IN	RXB 2(-) IN	RXB 2(-) IN
PIN 9	GND	GND	GPI 2	GPI 2



2IX08/09/10

2IM08/09/10

2FS10

2AS11/12

ASI10

DLA41

DBD18

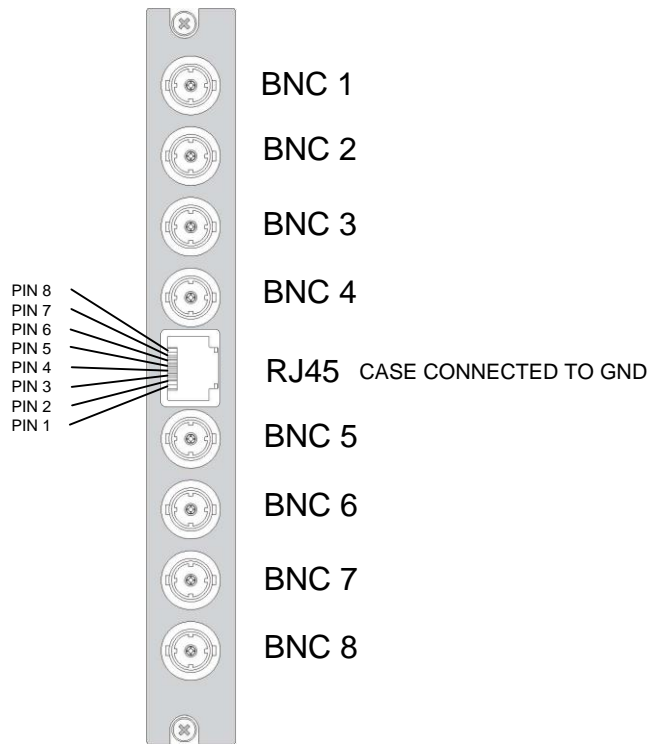
DLA42

DLA43

DLA44

DSF66

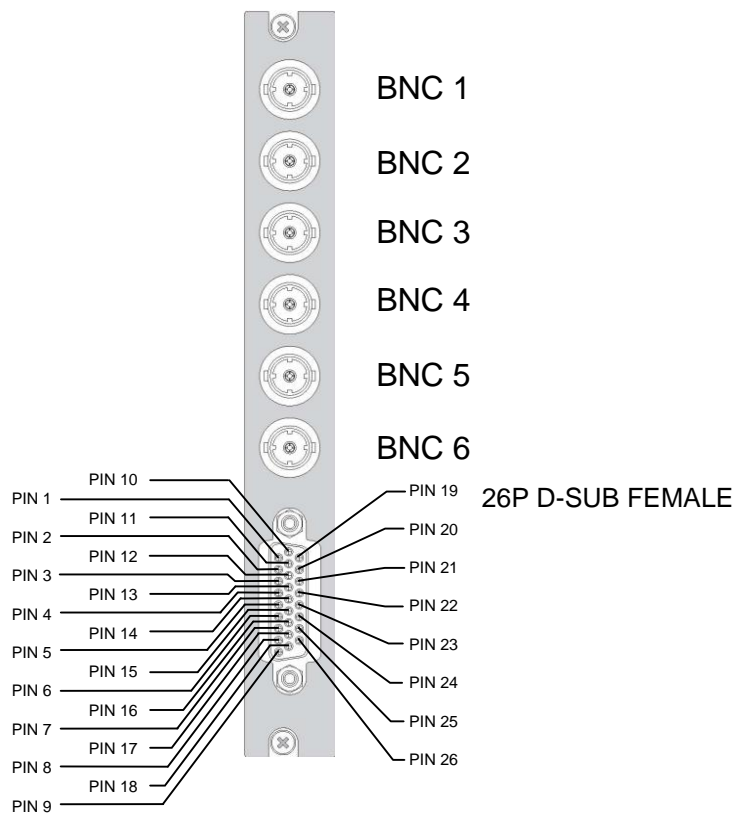
BNC 1	SDI IN A	SDI IN A	SDI IN A	CVBS IN A	ASI/DVB IN A	AES IN 1	AES IN 1
BNC 2	SDI OUT A-1	SDI OUT A-1	SDI OUT A-1	SDI OUT A-1	NC	AES IN 2	AES IN 2
BNC 3	SDI OUT A-2	SDI OUT A-2	SDI OUT A-2	SDI OUT A-2	ASI/DVB OUT A-1	AES IN 3	AES IN 3
BNC 4	SDI OUT A-3	SDI OUT A-3	SDI OUT A-3	SDI OUT A-3	ASI/DVB OUT A-2	AES IN 4	AES IN 4
BNC 5	SDI IN B	SDI IN B	SDI IN B	CVBS IN B	ASI/DVB IN B	AES OUT 1	AES OUT 1
BNC 6	SDI OUT B-1	SDI OUT B-1	SDI OUT B-1	SDI OUT B-1	NC	AES OUT 2	AES OUT 2
BNC 7	SDI OUT B-2	SDI OUT B-2	SDI OUT B-2	SDI OUT B-2	ASI/DVB OUT B-1	AES OUT 3	AES OUT 3
BNC 8	SDI OUT B-3	SDI OUT B-3	SDI OUT B-3	SDI OUT B-3	ASI/DVB OUT B-2	AES OUT 4	AES OUT 4
RJ45	GPI I/O	GPI I/O	GPI I/O	Not Used	GPI I/O	GPI I/O	GPI I/O
PIN 1	GPI 1 (InputSel: A=0 B=1)	GPI 1 (Not Applicable)	FREEZE 1		GPI 1 (InputSel: A=1 B=0)	GPI 1	Not Used
PIN 2	GND	GND	GND		GND	GPI 2	Not used
PIN 3	GPI 2 (VI/WSS ins)	GPI 2 (VI/WSS ins)	FREEZE 2		GPI 2 (Reserved)	TX+ (META DATA)	Metadata (TXA+)
PIN 4	GND	GND	GND		GND	RX+ (META DATA)	Not used
PIN 5	GPO 1 (Active_A: A=0 B=1)	GPO 1 (Not Applicable)	TRACKING 1		GPO 1 (Active_A: A=0 B=1)	RX- (META DATA)	Not used
PIN 6	GND	GND	GND		GND	TX- (META DATA)	Metadata (TXA-)
PIN 7	GPO 2 ((inv)VI/WSS ins)	GPO 2 ((inv)VI/WSS ins)	TRACKING 2		GPO 2 (Active_B: A=0 B=1)	GPI 3	Not used
PIN 8	GND	GND	GND		GND	GND	GND



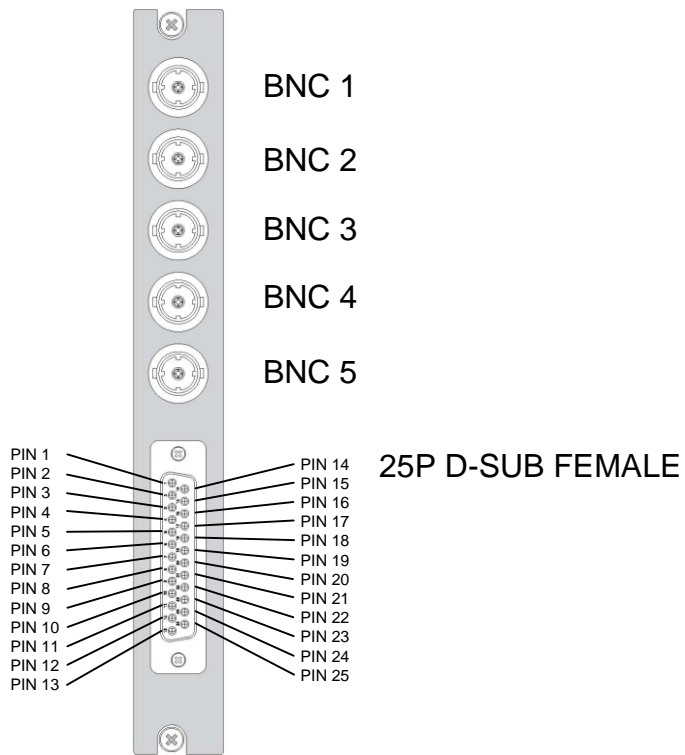
DAW30 DEE28
 DAW77
 DAW88
 DAW99

BNC 1	AES / EBU IN 1 / 2	Input1(Ch 1/2)
BNC 2	AES / EBU IN 3 / 4	Input2(Ch 3/4)
BNC 3	AES / EBU IN 5 / 6	Input3(Ch 5/6) / Output5(Ch 9/10)
BNC 4	AES / EBU IN 7 / 8	Input4(Ch 7/8) / Output6(Ch 11/12)
BNC 5	AES / EBU OUT 1 / 2	Input5(Ch 9/10) / Output3(Ch 5/6)
BNC 6	AES / EBU OUT 3 / 4	Input6(Ch 11/12) / Output4(Ch 7/8)
BNC 7	AES / EBU OUT 5 / 6	Output1(Ch 1/2)
BNC 8	AES / EBU OUT 7 / 8	Output1(Ch 3/4)

RJ45		GPIO	
PIN 1	Not used	GPI_1	=VO trigger
PIN 2	LTC (-)	GPI_2	=PRGM E encoder
PIN 3	GPO 0	Tx(+)	Metadata
PIN 4	Not used	Rx(+)	Metadata
PIN 5	Not used	Rx(-)	Metadata
PIN 6	GPO 1	Tx(-)	Metadata
PIN 7	LTC (+)	GPI_3	
PIN 8	GND	GND	



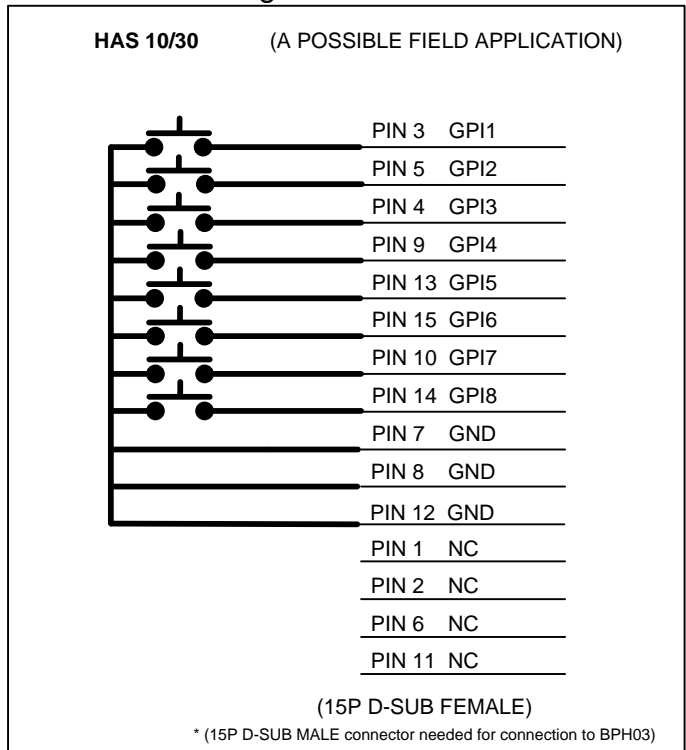
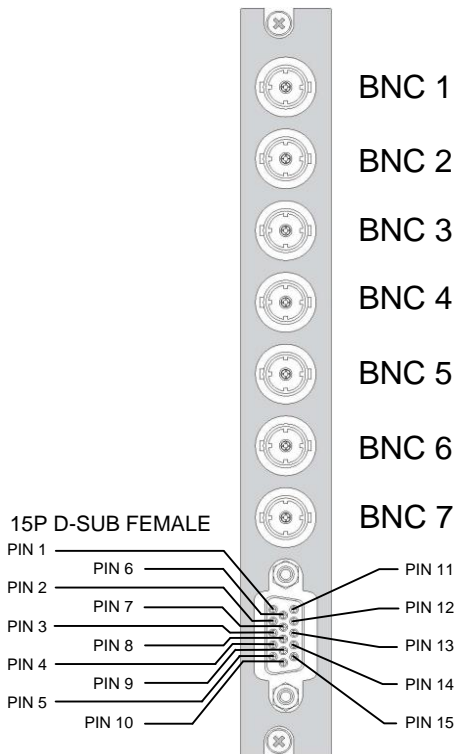
	2EB22	2EB24	2DB22	2DB24	ASM10	INS21	SAM10
BNC 1	SDI IN A	SDI IN A	SDI IN A	SDI IN A	SDI IN	SDI IN	SDI IN
BNC 2	SDI + EMB. OUT A	SDI + EMB. OUT A	SDI RECLK OUT A	RECLK SDI OUT A	SDI OUT	SDI OUT	SDI OUT
BNC 3	SDI + EMB. OUT A	SDI + EMB. OUT A	SDI RECLK OUT A	RECLK SDI OUT A	SDI OUT	SDI OUT	SDI OUT
BNC 4	SDI IN B	SDI IN B	SDI IN B	SDI IN B	Y/CVBS	CVBS	Y/CVBS
BNC 5	SDI + EMB. OUT B	SDI + EMB. OUT B	RECLK SDI OUT B	RECLK SDI OUT B	Pr	Reserved	Pb
BNC 6	SDI + EMB. OUT B	SDI + EMB. OUT B	RECLK SDI OUT B	RECLK SDI OUT B	Pb	Reserved	Pr
26P HD-SUB FEMALE							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GND	GND	GND	GND	GND	GND	GND
PIN 3	GND	GND	GND	GND	GND	GND	GND
PIN 4	GND	GND	GND	GND	GND	GND	GND
PIN 5	GND	GND	GND	GND	GND	GND	GND
PIN 6	GND	GND	GND	GND	GND	GND	GND
PIN 7	GND	GND	GND	GND	GND	GND	GND
PIN 8	GND	GND	GND	GND	GND	GND	GND
PIN 9	TRACKING 2	TRACKING 2	TRACKING 2	TRACKING 2	TRACKING 2	Reserved	NC
PIN 10	AES1+ A IN	A1pos IN	AES1- A OUT	A1pos OUT	AES1- OUT	Reserved	AES1+ IN
PIN 11	AES2+ A IN	A2pos IN	AES2- A OUT	A2pos OUT	AES2+ OUT	Reserved	AES2+ IN
PIN 12	NOT USED	A3pos IN	NC	A3pos OUT	A1pos IN	Reserved	A1pos OUT
PIN 13	NOT USED	A4pos IN	NC	A4pos OUT	A2pos IN	Reserved	A2pos OUT
PIN 14	AES1+ B IN	B1pos IN	AES1- B OUT	B1pos OUT	A3pos IN	Reserved	A3pos OUT
PIN 15	AES2+ B IN	B2pos IN	AES2- B OUT	B2pos OUT	A4pos IN	Reserved	A4pos OUT
PIN 16	NC	B3pos IN	NC	B3pos OUT	NC	NC	NC
PIN 17	NC	B4pos IN	NC	B4pos OUT	NC	NC	NC
PIN 18	TRACKING 1	TRACKING 1	TRACKING 1	TRACKING 1	TRACKING 1	Reserved	NC
PIN 19	AES1- A IN	A1neg IN	AES1+ A OUT	A1neg OUT	AES1+ OUT	Reserved	AES1- IN
PIN 20	AES2- A IN	A2neg IN	AES2+ A OUT	A2neg OUT	AES2- OUT	Reserved	AES2- IN
PIN 21	NOT USED	A3neg IN	NC	A3neg OUT	A1neg IN	Reserved	A1neg OUT
PIN 22	NOT USED	A4neg IN	NC	A4neg OUT	A2neg IN	Reserved	A2neg OUT
PIN 23	AES1- B IN	B1neg IN	AES1+ B OUT	B1neg OUT	A3neg IN	Reserved	A3neg OUT
PIN 24	AES2- B IN	B2neg IN	AES2+ B OUT	B2neg OUT	A4neg IN	Reserved	A4neg OUT
PIN 25	NC	B3neg IN	NC	B3neg OUT	NC	NC	NC
PIN 26	NC	B4neg IN	NC	B4neg OUT	NC	NC	NC



	HEB10	HEB05/20	HDB10	HDB05/20	HAS20	HVO10
BNC 1	HD SDI IN	SD/HD SDI IN	HD SDI IN	HD SDI IN	SD/HD SDI IN	HD SDI IN
BNC 2	RECLK HD SDI OUT	RECLK HD SDI OUT	RECLK HD SDI OUT	RECLK HD SDI OUT	RECLK HD SDI OUT	RECLK HD SDI OUT
BNC 3	HD SDI + EMB. OUT	SD/HD SDI + EMB. OUT	NC	RECLK HD SDI OUT	SD/HD SDI + EMB. OUT	HD SDI OUT
BNC 4	HD SDI + EMB. OUT	SD/HD SDI + EMB. OUT	NC	RECLK HD SDI OUT	SD/HD SDI + EMB. OUT	HD SDI OUT
BNC 5	NC	GPI	NC	NC	NC	GPI

25P D-SUB FEMALE						
PIN 1	NC	NC	NC	NC	NC	NC
PIN 2	NC	NC	NC	NC	NC	NC
PIN 3	GND	GND	GND	GND	GND	GND
PIN 4	GND	GND	GND	GND	GND	GND
PIN 5	GND	GND	GND	GND	GND	GND
PIN 6	GND	GND	GND	GND	GND	GND
PIN 7	AES1- IN	AES1- IN	AES1- OUT	AES1- OUT	AES1- IN	AES1- IN
PIN 8	AES1+ IN	AES1+ IN	AES1+ OUT	AES1+ OUT	AES1+ IN	AES1+ IN
PIN 9	GND	GND	GND	GND	GND	GND
PIN 10	AES3- IN	AES3- IN	AES3- OUT	AES3- OUT	AES3- IN	AES3- IN
PIN 11	AES3+ IN	AES3+ IN	AES3+ OUT	AES3+ OUT	AES3+ IN	AES3+ IN
PIN 12	GND	GND	GND	GND	GND	GND
PIN 13	GND	GND	GND	GND	GND	GND
PIN 14	GND	GND	GND	GND	GND	GND
PIN 15	NC	NC	NC	NC	NC	NC
PIN 16	NC	NC	NC	NC	NC	NC
PIN 17	GND	GND	GND	GND	GND	GND
PIN 18	GND	GND	GND	GND	GND	GND
PIN 19	GND	GND	GND	GND	GND	GND
PIN 20	GND	GND	GND	GND	GND	GND
PIN 21	AES2- IN	AES2- IN	AES2+ OUT	AES2- OUT	AES2- IN	AES2- IN
PIN 22	AES2+ IN	AES2+ IN	AES2- OUT	AES2+ OUT	AES2+ IN	AES2+ IN
PIN 23	GND	GND	GND	GND	GND	GND
PIN 24	AES4- IN	AES4- IN	AES4+ OUT	AES4- OUT	AES4- IN	AES4- IN
PIN 25	AES4+ IN	AES4+ IN	AES4- OUT	AES4+ OUT	AES4+ IN	AES4+ IN

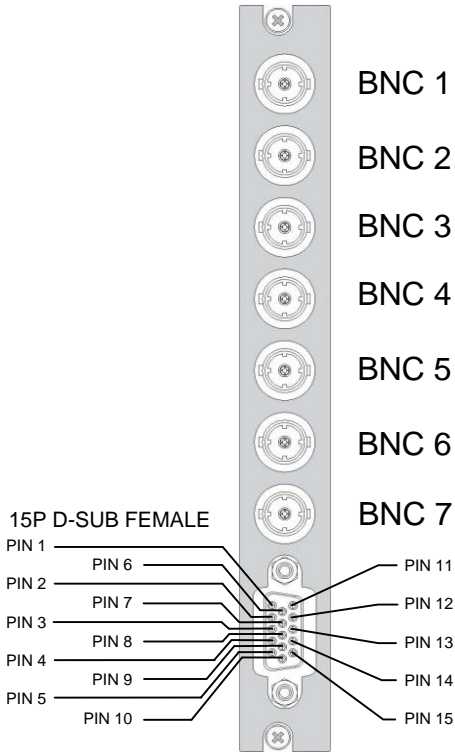
Connection Diagram



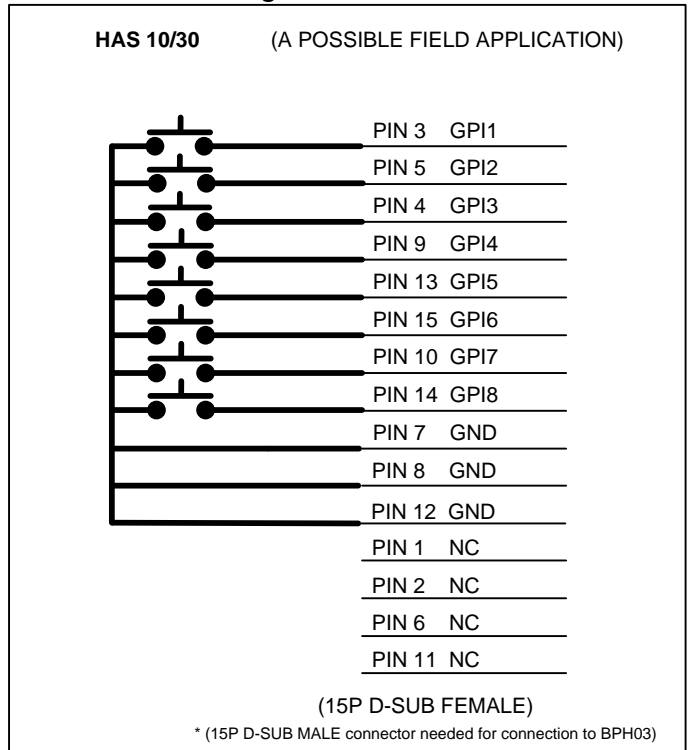
HAS10/30 HDS05/10 SVD20 HXH20/21 HXH30/31 HXH40/41 SXS20 / 21 HCL10 HDS20/21
HSU05/10/11

BNC 1	HD SDI IN	HD/SD SDI IN	SD SDI IN	HD SDI IN	SD SDI IN	HD SDI IN	HD/SD SDI IN
BNC 2	HD SDI RECLK OUT	HD/SD RECLK OUT	SD SDI RECLK OUT	HD SDI RECLK OUT	SD SDI RECLK OUT	HD SDI RECLK OUT	HD/SD RECLK OUT
BNC 3	HD SDI PROC OUT	SD SDI OUT1	SD SDI OUT1	HD SDI PROC OUT	SD SDI PROC OUT	HD SDI PROC OUT	HD/SD SDI OUT1
BNC 4	HD SDI PROC OUT	SD SDI OUT2	SD SDI OUT2	HD SDI PROC OUT	SD SDI PROC OUT	HD SDI PROC OUT	HD/SD SDI OUT2
BNC 5	NC	NC	NC	NC	NC	NC	NC
BNC 6	NC	NC	NC	NC	NC	NC	NC
BNC 7	NC	NC	NC	NC	NC	NC	NC

15P HD-SUB FEMALE							
PIN 1	NC	NC	NC	GPO2	GPO2	GPO2	GPO2
PIN 2	NC	NC	NC	GPO4	GPO4	GPO4	GPO4
PIN 3	GPI1	GPI1	GPI1	GPI1	GPI1	GPI1	GPI1
PIN 4	GPI3	GPI3	NC	GPI3	GPI3	GPI3	GPI3
PIN 5	GPI2	GPI2	GPI2	GPI2	GPI2	GPI2	GPI2
PIN 6	NC	NC	NC	GPO1	GPO1	GPO1	GPO1
PIN 7	GND	GND	GND	GND	GND	GND	GND
PIN 8	GND	GND	GND	GND	GND	GND	GND
PIN 9	GPI4	GPI4	NC	GPI4	GPI4	GPI4	GPI4
PIN 10	GPI7	GPI7	NC	GPI7	GPI7	GPI7	GPI7
PIN 11	NC	NC	NC	GPO3	GPO3	GPO3	GPO3
PIN 12	GND	GND	GND	GND	GND	GND	GND
PIN 13	GPI5	GPI5	NC	GPI5	GPI5	GPI5	GPI5
PIN 14	GPI8	GPI8	NC	GPI8	GPI8	GPI8	GPI8
PIN 15	GPI6	GPI6	NC	GPI6	GPI6	GPI6	GPI6

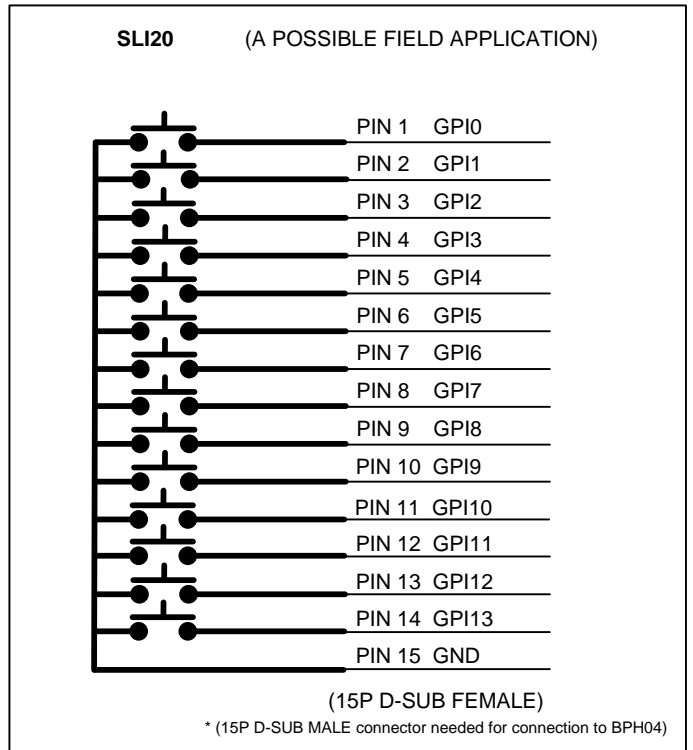
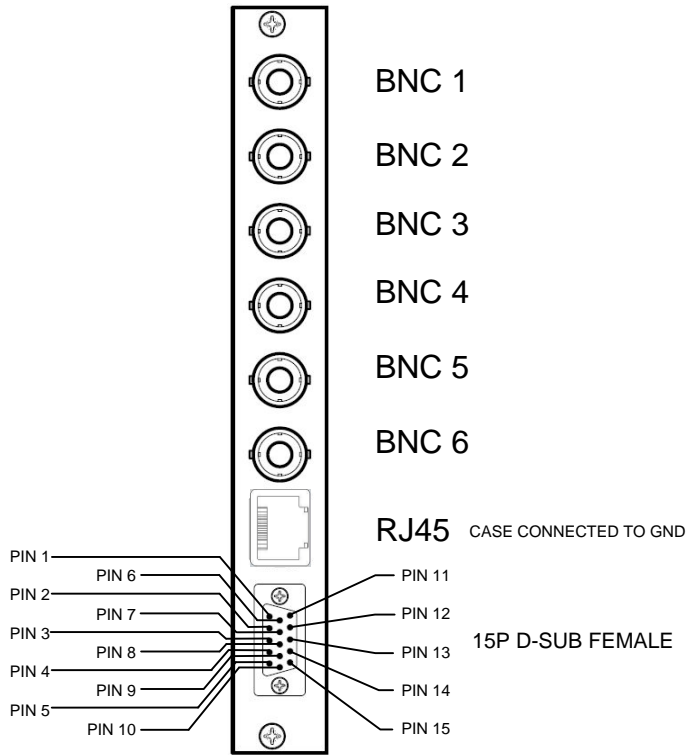


Connection Diagram

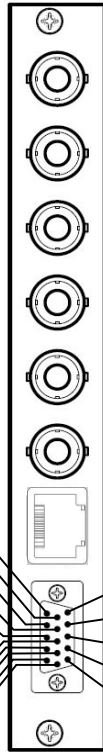


HSU20/21		HSU30/31	
BNC 1	HD/SD SDI IN	HD/SD SDI IN	
BNC 2	HD/SD RECLK OUT	HD/SD RECLK OUT	
BNC 3	HD SDI OUT1	HD SDI OUT1	
BNC 4	HD SDI OUT2	HD SDI OUT2	
BNC 5	NC	NC	
BNC 6	NC	NC	
BNC 7	NC	NC	
15P HD-SUB FEMALE			
PIN 1	GPO2	GPO2	
PIN 2	GPO4	GPO4	
PIN 3	GPI1	GPI1	
PIN 4	GPI3	GPI3	
PIN 5	GPI2	GPI2	
PIN 6	GPO1	GPO1	
PIN 7	GND	GND	
PIN 8	GND	GND	
PIN 9	GPI4	GPI4	
PIN 10	GPI7	GPI7	
PIN 11	GPO3	GPO3	
PIN 12	GND	GND	
PIN 13	GPI5	GPI5	
PIN 14	GPI8	GPI8	
PIN 15	GPI6	GPI6	

Connection Diagram



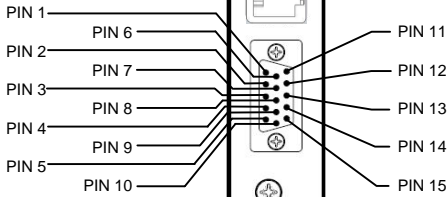
	HLI20	HTI10	HSI10	HSI11	HSI12	HSI20	HSS10
BNC 1	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN
BNC 2	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT
BNC 3	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1
BNC 4	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2
BNC 5	NC	NC	NC	NC	NC	NC	NC
BNC 6	NC	NC	CVBS PREVIEW OUT	CVBS PREVIEW OUT	CVBS PREVIEW OUT	CVBS PREVIEW OUT	CVBS PREVIEW OUT
RJ45	Ethernet connection	Ethernet connection	Ethernet connection	Ethernet connection	Ethernet connection	Ethernet connection	Ethernet connection
15P HD-SUB FEMALE							
PIN 1	GPI0	GPI0	GPI0 (CLEAR CAPTION)	GPI0 (CLEAR CAPTION)	GPI0 (CLEAR CAPTION)	GPI0 (RESERVED)	GPI0
PIN 2	GPI1	GPI1	GPI1(BYPASS INSERTER)	GPI1(BYPASS INSERTER)	GPI1(BYPASS INSERTER)	GPI1 (RESERVED)	GPI1
PIN 3	GPI2	GPI2	RESERVED	RESERVED	RESERVED	GPI2	GPI2
PIN 4	GPI3	GPI3	RESERVED	RESERVED	RESERVED	GPI3	GPI3
PIN 5	GPI4	GPI4	RESERVED	RESERVED	RESERVED	GPI4	GPI4
PIN 6	GPI5	GPI5	RESERVED	RESERVED	RESERVED	GPI5	GPI5
PIN 7	GPI6	GPI6	RESERVED	RESERVED	RESERVED	GPI6	GPI6
PIN 8	GPI7	GPI7	RESERVED	RESERVED	RESERVED	GPI7	GPI7
PIN 9	GPI8	GPI8	RESERVED	RESERVED	GPI8 (CUE IN 1)	GPI8	GPI8
PIN 10	GPI9	GPI9	RESERVED	RESERVED	GPI9 (CUE IN 2)	GPI9	GPI9
PIN 11	GPI10	GPI10	RESERVED	RESERVED	GPI10 (CUE IN 3)	GPI10	GPI10
PIN 12	GPI11	GPI11	RESERVED	RESERVED	GPI11 (CUE IN 4)	GPI11	GPI11
PIN 13	GPI12	GPI12	RESERVED	RESERVED	GPI12 (CUE IN 5)	GPI12	GPI12
PIN 14	GPI13	GPI13	RESERVED	RESERVED	GPI13 (CUE IN 6)	GPI13	GPI13
PIN 15	GND	GND	GND	GND	GND	GND	GND



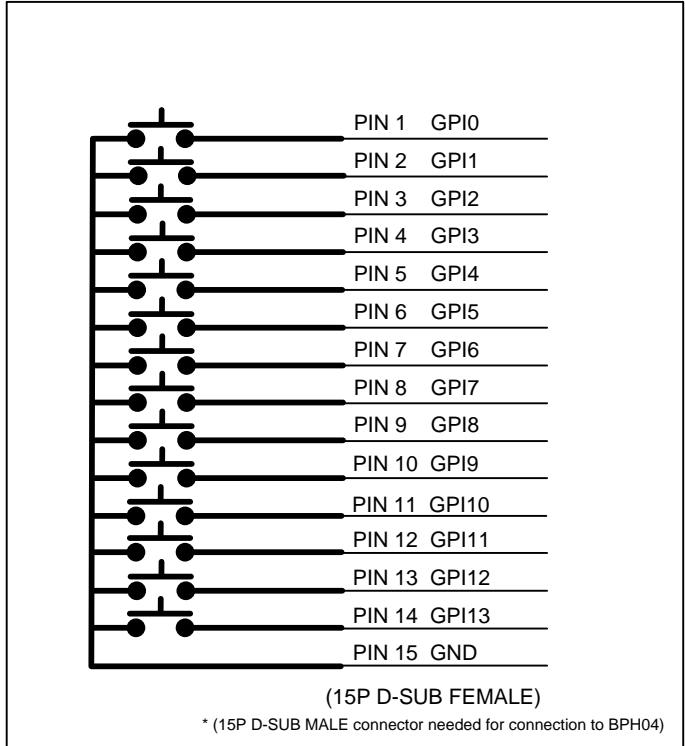
BNC 1
BNC 2
BNC 3
BNC 4
BNC 5
BNC 6

RJ45 CASE CONNECTED TO GND

15P D-SUB FEMALE



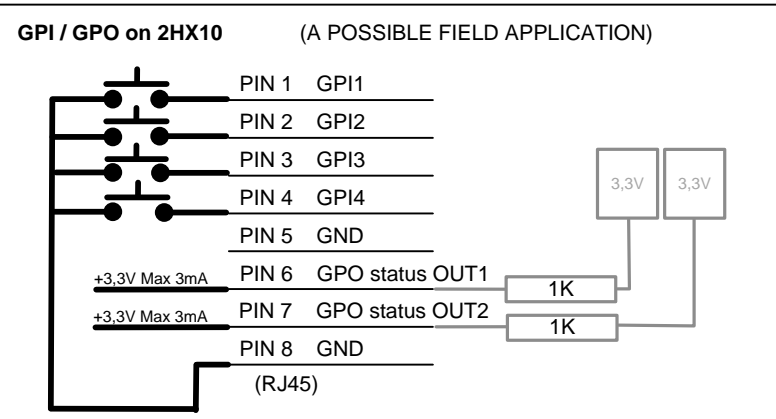
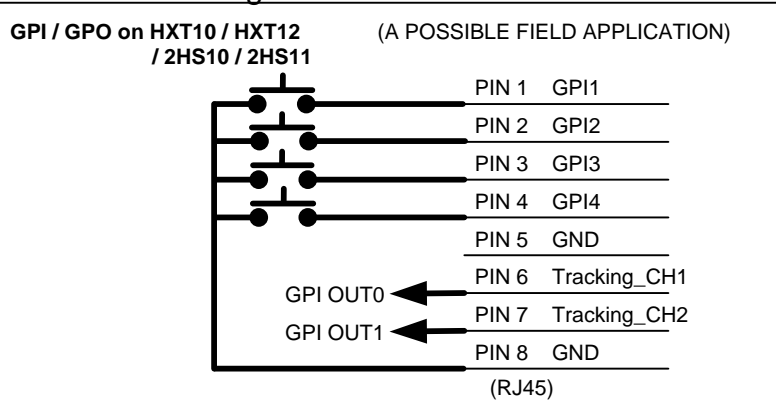
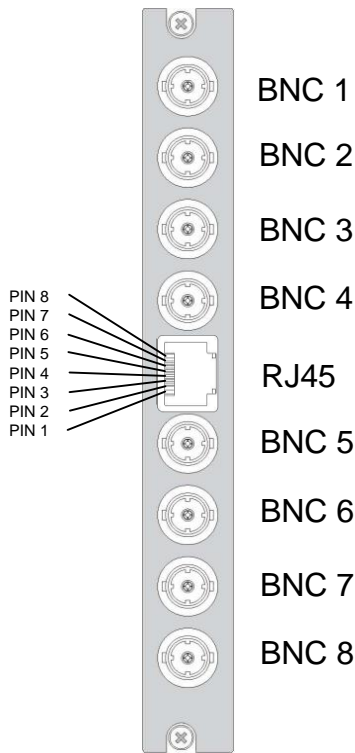
Connection Diagram



	INS30	SLI20	HSI21			
BNC 1	SD SDI IN	SD SDI IN	SD SDI IN			
BNC 2	SD PREVIEW SDI OUT	SD PREVIEW SDI OUT	SD PREVIEW SDI OUT			
BNC 3	SD SDI PROC OUT 1	SD PROC SDI OUT 1	SD PROC SDI OUT 1			
BNC 4	SD SDI PROC OUT 2	SD PROC SDI OUT 2	SD PROC SDI OUT 2			
BNC 5	NC	NC	NC			
BNC 6	CVBS PREVIEW OUT	CVBS PREVIEW OUT	CVBS PREVIEW OUT			
RJ45	Ethernet connection	Ethernet connection	Ethernet connection			

15P HD-SUB FEMALE						
PIN 1	GPI0 (CLEAR CAPTION)	GPI0	GPI0 (Reserved)			
PIN 2	GPI1(BYPASS INSERTER)	GPI1	GPI1 (Encoder Bypass)			
PIN 3	RESERVED	GPI2	GPI2 (Decoder Bypass)			
PIN 4	RESERVED	GPI3	GPI3 (Reserved)			
PIN 5	RESERVED	GPI4	GPI4 (Reserved)			
PIN 6	RESERVED	GPI5	GPI5 (Reserved)			
PIN 7	RESERVED	GPI6	GPI6 (Reserved)			
PIN 8	RESERVED	GPI7	GPI7 (Reserved)			
PIN 9	RESERVED	GPI8	GPI8 (CUE in 1)			
PIN 10	RESERVED	GPI9	GPI9 (CUE in 2)			
PIN 11	RESERVED	GPI10	GPI10 (CUE in 3)			
PIN 12	RESERVED	GPI11	GPI11 (CUE in 4)			
PIN 13	RESERVED	GPI12	GPI12 (CUE in 5)			
PIN 14	RESERVED	GPI13	GPI13 (CUE in 6)			
PIN 15	GND	GND	GND			

Connection Diagram

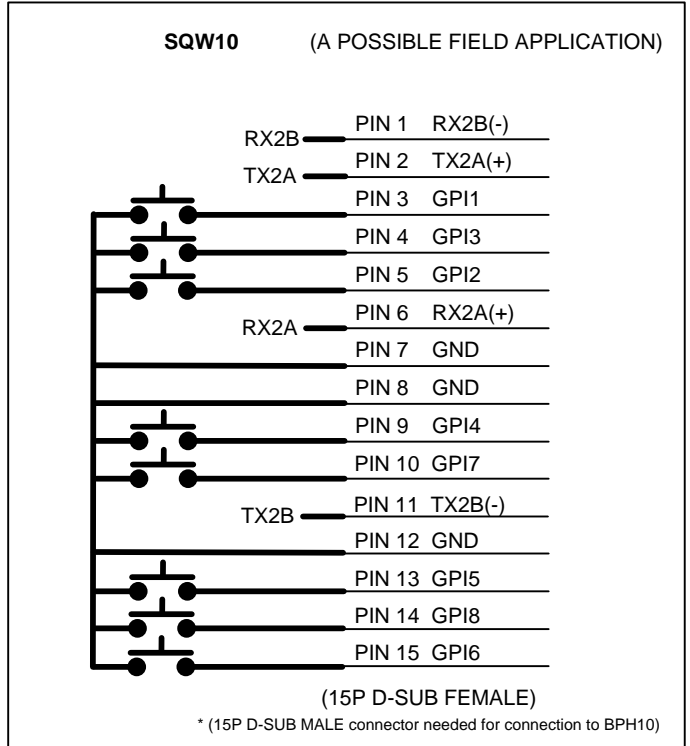
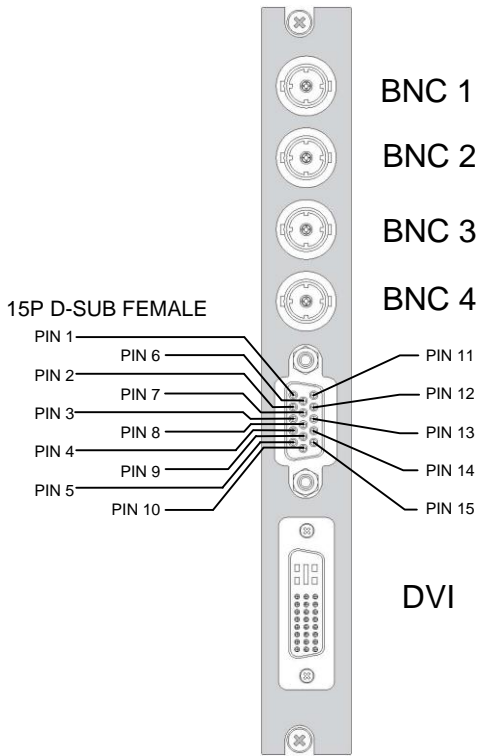


	HXT10 / 12	2HS10/11	2HX10
BNC 1	SD/HD SDI IN	SD/HD SDI IN	SD/HD SDI IN1
BNC 2	SD/HD PROC SDI OUT	SD/HD PROC SDI OUT	SD/HD SDI OUT1
BNC 3	SD PROC SDI OUT	SD PROC SDI OUT	SD SDI OUTPUT
BNC 4	COMPOSITE OUT	COMPOSITE OUT	CVBS OUTPUT
BNC 5	SD/HD SDI IN	SD/HD SDI IN	SD/HD SDI IN2
BNC 6	SD/HD PROC SDI OUT	SD/HD PROC SDI OUT	SD/HD SDI OUT2
BNC 7	SD PROC SDI OUT	SD PROC SDI OUT	SD SDI OUTPUT
BNC 8	COMPOSITE OUT	COMPOSITE OUT	CVBS OUTPUT

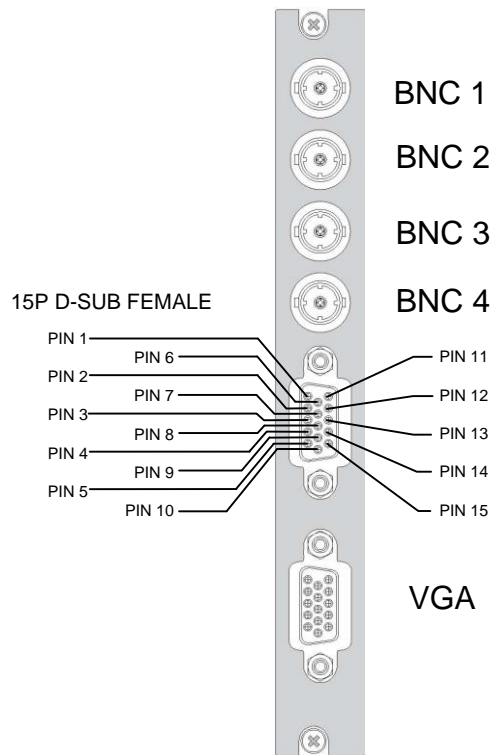
RJ 45

PIN 1	GPI 1	GPI 1	GPI 1
PIN 2	GPI 2	GPI 2	GPI 2
PIN 3	GPI 3	GPI 3	GPI 3
PIN 4	GPI 4	GPI 4	GPI 4
PIN 5	GND	GND	GND
PIN 6	TRACKING_CH1	TRACKING_CH1	GPO STATUS OUT1
PIN 7	TRACKING_CH2	TRACKING_CH2	GPO STATUS OUT2
PIN 8	GND	GND	GND

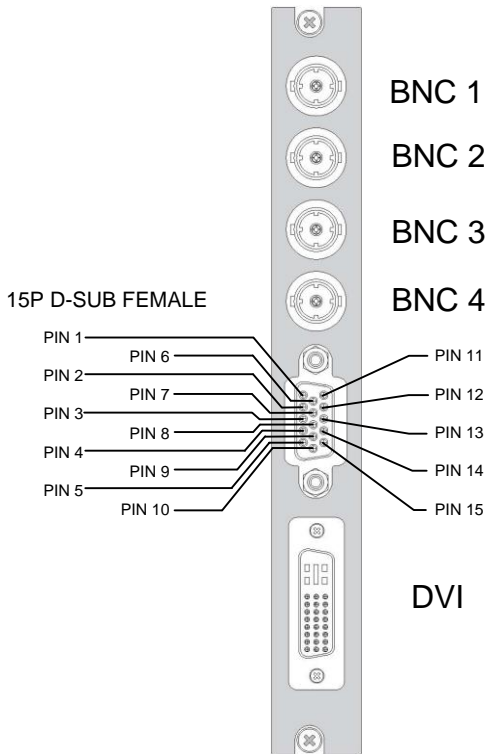
Connection Diagram



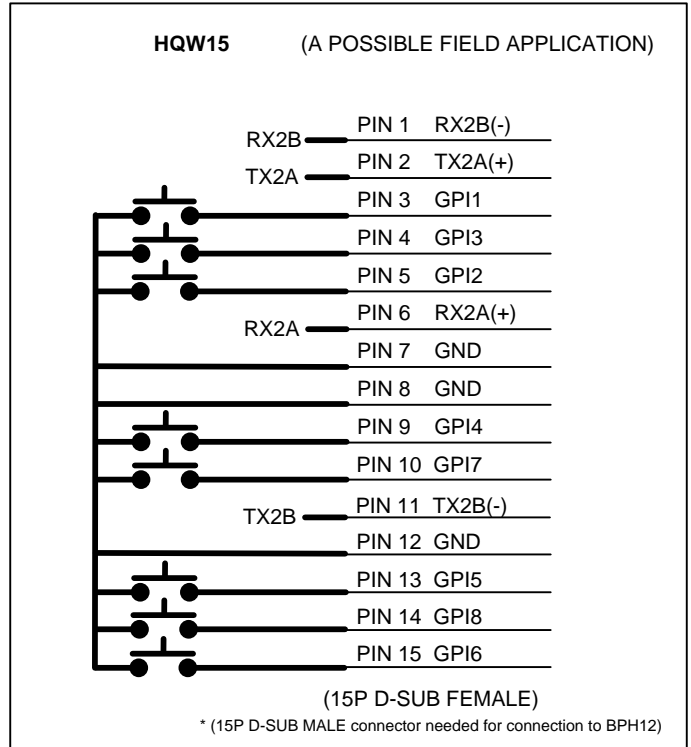
	SQW10	HQW10	SDW10	HDW10
BNC 1	SDI IN 1	SDI IN 1	SDI IN	SDI IN
BNC 2	SDI IN 2	SDI IN 2	NC	NC
BNC 3	SDI IN 3	SDI IN 3	NC	NC
BNC 4	SDI IN 4	SDI IN 4	NC	NC
15P HD-SUB FEMALE				
PIN 1	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)
PIN 2	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)
PIN 3	GPI 1	GPI 1	NC	NC
PIN 4	GPI 3	GPI 3	NC	NC
PIN 5	GPI 2	GPI 2	NC	NC
PIN 6	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)
PIN 7	GND	GND	GND	GND
PIN 8	GND	GND	GND	GND
PIN 9	GPI 4	GPI 4	NC	NC
PIN 10	GPI 7	GPI 7	NC	NC
PIN 11	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)
PIN 12	GND	GND	GND	GND
PIN 13	GPI 5	GPI 5	NC	NC
PIN 14	GPI 8	GPI 8	NC	NC
PIN 15	GPI 6	GPI 6	NC	NC



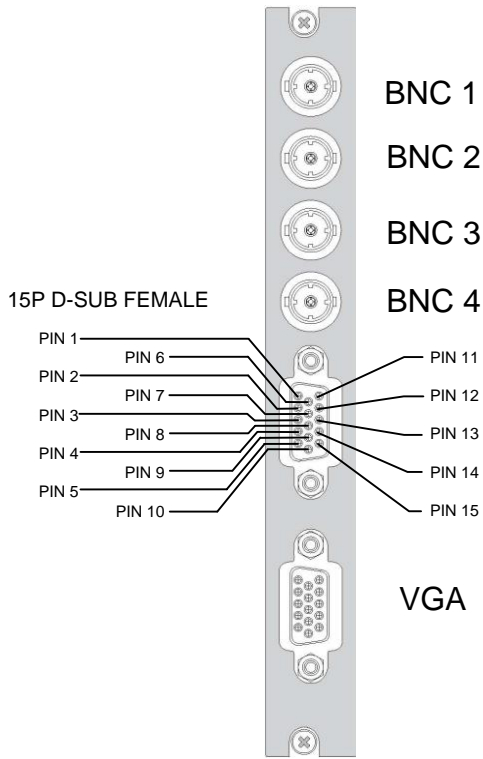
	SQW10	HQW10	SDW10	HDW10	
BNC 1	SDI IN 1	SDI IN 1	SDI IN	SDI IN	
BNC 2	SDI IN 2	SDI IN 2	NC	NC	
BNC 3	SDI IN 3	SDI IN 3	NC	NC	
BNC 4	SDI IN 4	SDI IN 4	NC	NC	
15P HD-SUB FEMALE					
PIN 1	R	R	R	R	
PIN 2	G	G	G	G	
PIN 3	B	B	B	B	
PIN 4	NC	NC	NC	NC	
PIN 5	NC	NC	NC	NC	
PIN 6	GND	GND	GND	GND	
PIN 7	GND	GND	GND	GND	
PIN 8	GND	GND	GND	GND	
PIN 9	NC	NC	NC	NC	
PIN 10	GND	GND	GND	GND	
PIN 11	NC	NC	NC	NC	
PIN 12	SDA	SDA	SDA	SDA	
PIN 13	VGA HSYNC	VGA HSYNC	VGA HSYNC	VGA HSYNC	
PIN 14	VGA VSYNC	VGA VSYNC	VGA VSYNC	VGA VSYNC	
PIN 15	SCL	SCL	SCL	SCL	



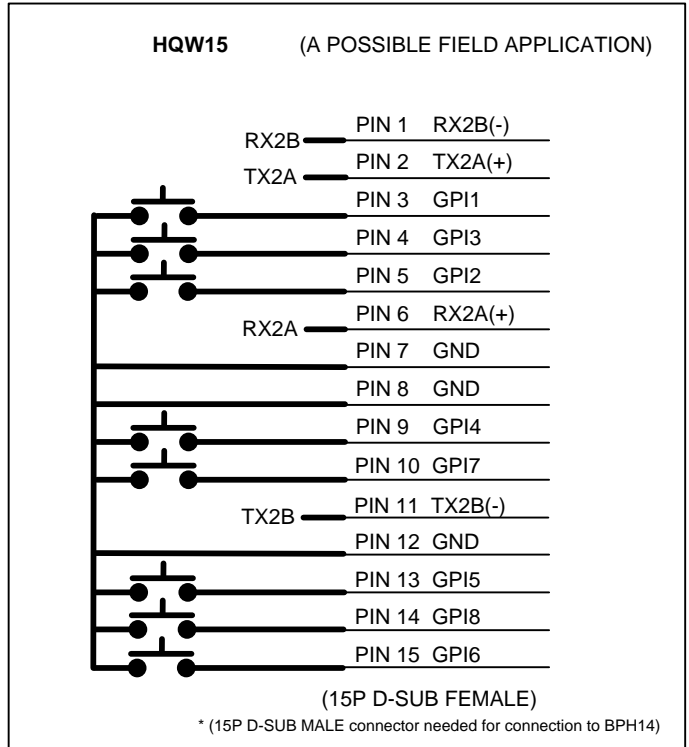
Connection Diagram



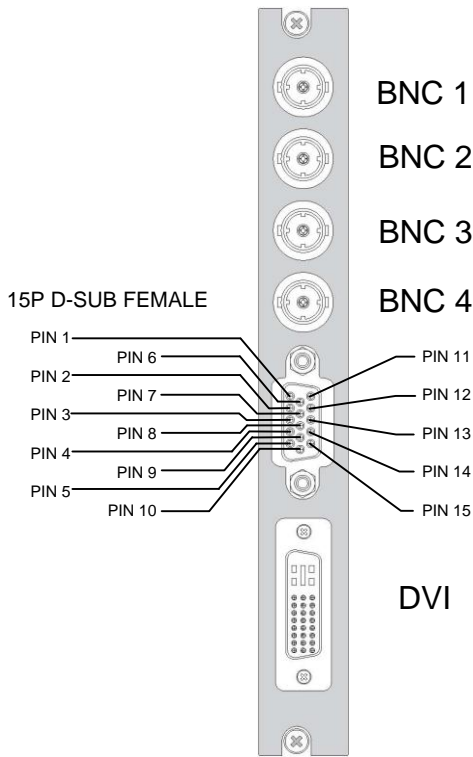
HQW15	
BNC 1	SD/HD SDI IN 1
BNC 2	SD/HD SDI IN 2
BNC 3	SD/HD SDI IN 3
BNC 4	SD/HD SDI IN 4
15P HD-SUB FEMALE	
PIN 1	RX2B(-)
PIN 2	TX2A(+)
PIN 3	GPI 1
PIN 4	GPI 3
PIN 5	GPI 2
PIN 6	RX2A(+)
PIN 7	GND
PIN 8	GND
PIN 9	GPI 4
PIN 10	GPI 7
PIN 11	TX2B(-)
PIN 12	GND
PIN 13	GPI 5
PIN 14	GPI 8
PIN 15	GPI 6



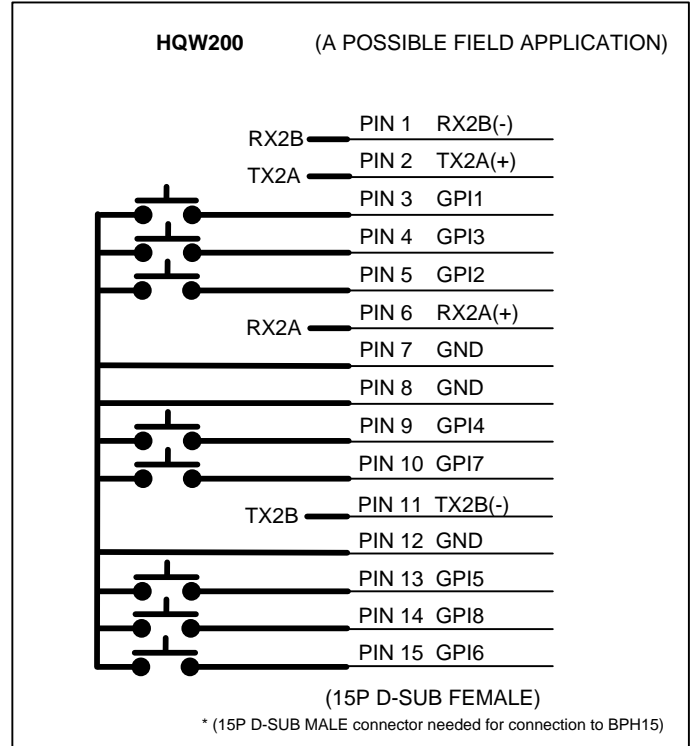
Connection Diagram



HQW15	
BNC 1	SD/HD SDI IN 1
BNC 2	SD/HD SDI IN 2
BNC 3	SD/HD SDI IN 3
BNC 4	SD/HD SDI IN 4
15P HD-SUB FEMALE	
PIN 1	RX2B(-)
PIN 2	TX2A(+)
PIN 3	GPI 1
PIN 4	GPI 3
PIN 5	GPI 2
PIN 6	RX2A(+)
PIN 7	GND
PIN 8	GND
PIN 9	GPI 4
PIN 10	GPI 7
PIN 11	TX2B(-)
PIN 12	GND
PIN 13	GPI 5
PIN 14	GPI 8
PIN 15	GPI 6

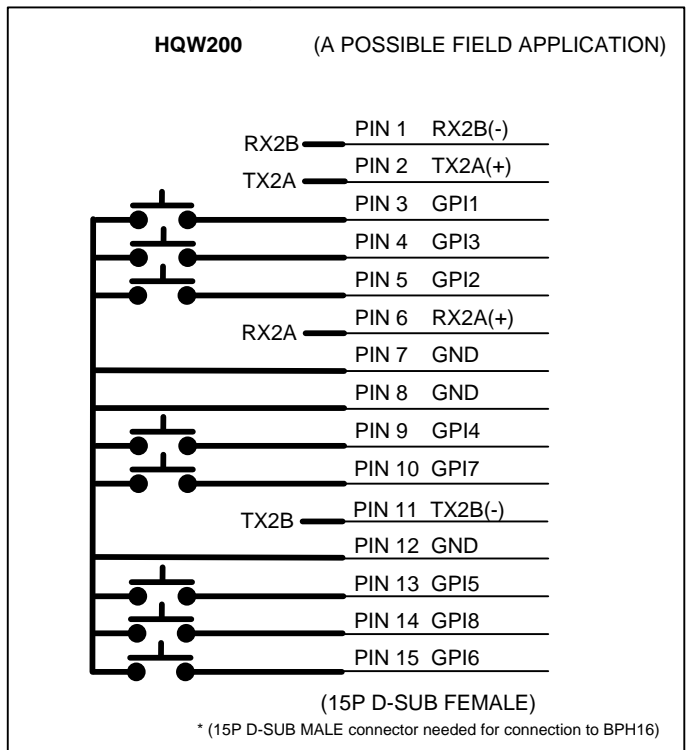
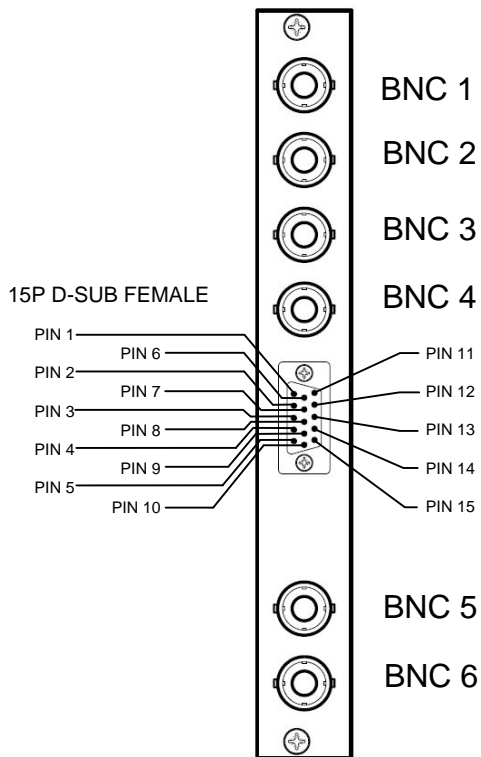


Connection Diagram



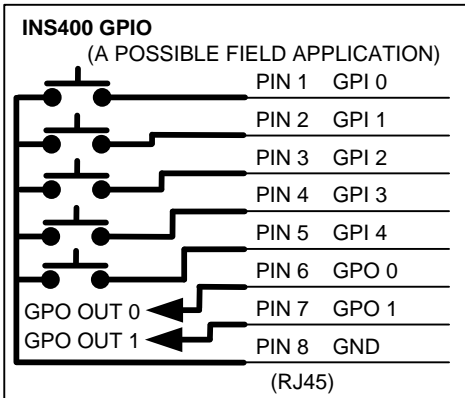
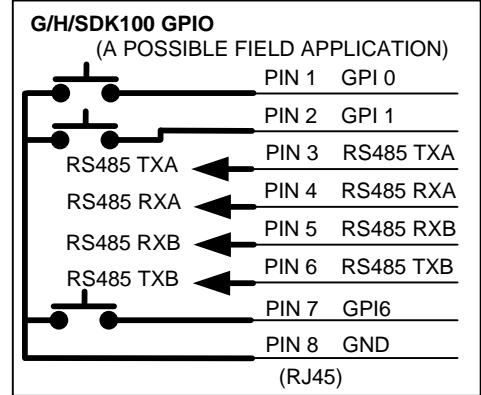
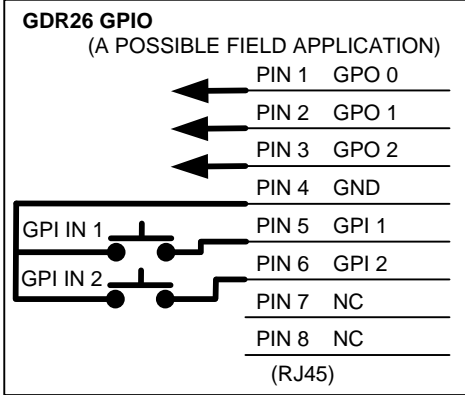
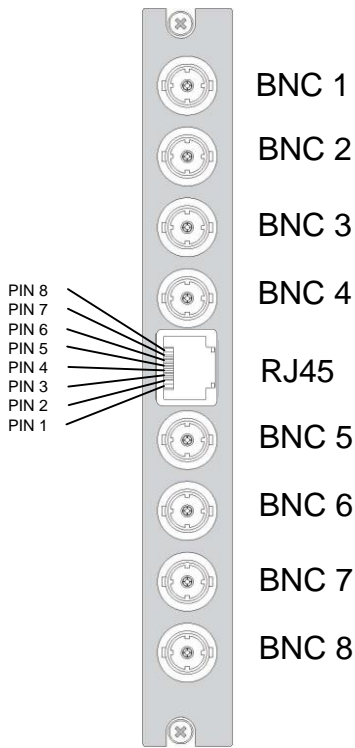
	HQW200	GQW200	HMV200	GMV200	SMV200
BNC 1	SD/HD SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1
BNC 2	SD/HD SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2
BNC 3	SD/HD SDI IN 3	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3
BNC 4	SD/HD SDI IN 4	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4
15P HD-SUB FEMALE					
PIN 1	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)
PIN 2	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)
PIN 3	GPI 1	GPI 1	GPI 1	GPI 1	GPI 1
PIN 4	GPI 3	GPI 3	GPI 3	GPI 3	GPI 3
PIN 5	GPI 2	GPI 2	GPI 2	GPI 2	GPI 2
PIN 6	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)
PIN 7	GND	GND	GND	GND	GND
PIN 8	GND	GND	GND	GND	GND
PIN 9	GPI 4	GPI 4	GPI 4	GPI 4	GPI 4
PIN 10	GPI 7	GPI 7	GPI 7	GPI 7	GPI 7
PIN 11	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)
PIN 12	GND	GND	GND	GND	GND
PIN 13	GPI 5	GPI 5	GPI 5	GPI 5	GPI 5
PIN 14	GPI 8	GPI 8	GPI 8	GPI 8	GPI 8
PIN 15	GPI 6	GPI 6	GPI 6	GPI 6	GPI 6

Connection Diagram



	HQW 200	GQW200	HMV200	GMV200	SMV200
BNC 1	SD/HD SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1
BNC 2	SD/HD SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2
BNC 3	SD/HD SDI IN 3	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3
BNC 4	SD/HD SDI IN 4	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4
BNC 5	SD/HD SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1
BNC 6	SD/HD SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2
15P HD-SUB FEMALE					
PIN 1	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)
PIN 2	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)
PIN 3	GPI 1	GPI 1	GPI 1	GPI 1	GPI 1
PIN 4	GPI 3	GPI 3	GPI 3	GPI 3	GPI 3
PIN 5	GPI 2	GPI 2	GPI 2	GPI 2	GPI 2
PIN 6	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)
PIN 7	GND	GND	GND	GND	GND
PIN 8	GND	GND	GND	GND	GND
PIN 9	GPI 4	GPI 4	GPI 4	GPI 4	GPI 4
PIN 10	GPI 7	GPI 7	GPI 7	GPI 7	GPI 7
PIN 11	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)
PIN 12	GND	GND	GND	GND	GND
PIN 13	GPI 5	GPI 5	GPI 5	GPI 5	GPI 5
PIN 14	GPI 8	GPI 8	GPI 8	GPI 8	GPI 8
PIN 15	GPI 6	GPI 6	GPI 6	GPI 6	GPI 6

Connection Diagram

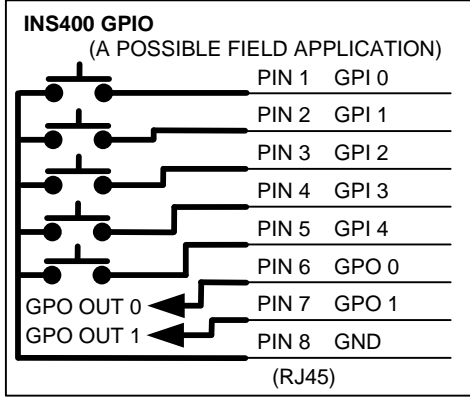
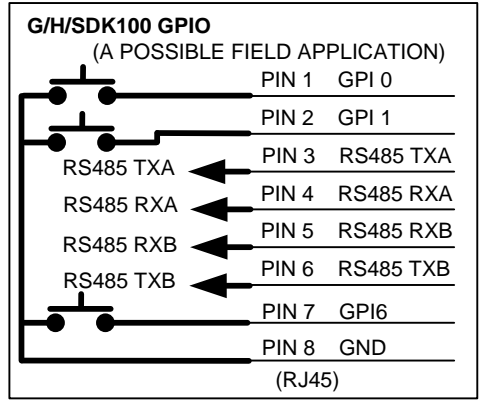
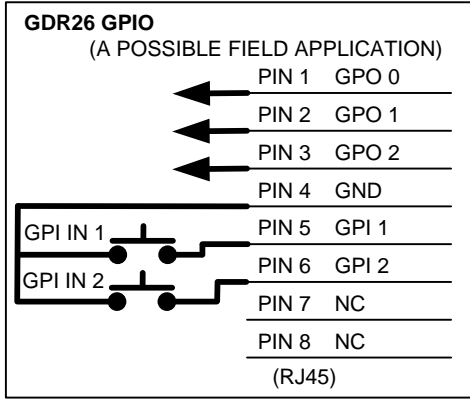
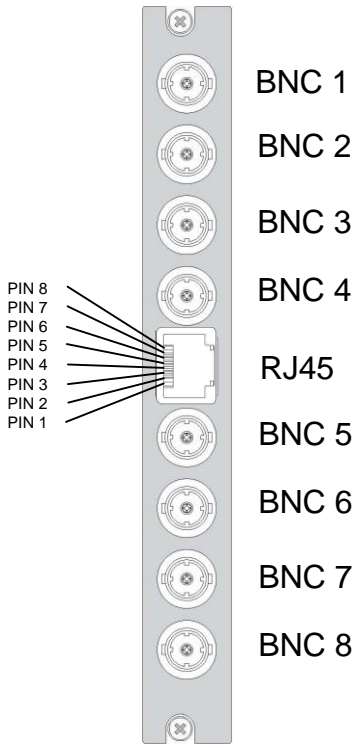


The output current of the GPO signals is limited! Please amplify when a low impedance load is used.

GDR26	INS400 HNS400	G/HDL100/200	G/H/SDK100 G/H/SDK200/300	GSU150/160 GXG150/160 2GU100/110 2XG100/110 2GS100/110 2GF100/110 HSU150/160 HXH150/160 2HU100/110 2XH100/110 2HS100/110 2HF100/110 2SF100/110	GSU100/110 GXG150/160 GDS100/110 HSU100/110 HXH100/110 HDS100/110 HFS100/110 SFS100/110	HXT010/100/110 GXT010/100/110
-------	------------------	--------------	------------------------------	--	--	----------------------------------

BNC 1	SD/HD/3G SDI OUT A3	SD SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	HD/SD SDI IN 1
BNC 2	SD/HD/3G SDI OUT A2	SD SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	HD/SD SDI IN 2
BNC 3	SD/HD/3G SDI OUT A1	SD SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT A1	SD/HD/3G SDI OUT A1	SD SDI OUT 1
BNC 4	SD/HD/3G SDI IN A	SD SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT A2	SD/HD/3G SDI OUT A2	SD SDI OUT 2
BNC 5	SD/HD/3G SDI IN B	SD SDI OUT 3	SD/HD/3G SDI OUT 3	SD/HD/3G SDI OUT 3	SD/HD/3G SDI OUT B1	SD/HD/3G SDI OUT A3	SD SDI OUT 3
BNC 6	SD/HD/3G SDI OUT B1	SD SDI OUT 4	SD/HD/3G SDI OUT 4	SD/HD/3G SDI OUT 4	SD/HD/3G SDI OUT B2	SD/HD/3G SDI OUT A4	SD SDI OUT 4
BNC 7	SD/HD/3G SDI OUT B2	NC	NC	SD/HD/3G SDI IN 3	NC	NC	NC
BNC 8	SD/HD/3G SDI OUT B3	CVBS IN	NC	SD/HD/3G SDI IN 4	CVBS IN	CVBS IN	NC
RJ 45					GPI I/O	GPI I/O	GPI I/O
PIN 1	GPO 0	GPI0	NC	GPI0	GPI 0	GPI 0	GPI 0
PIN 2	GPO 1	GPI1	NC	GPI1	GPI 1	GPI 1	GPI 1
PIN 3	GPO 2	GPI2	NC	RS485 TXA	GPI 2	GPI 2	GPI 2
PIN 4	GND	GPI3	NC	RS485 RXA	GPI 3	GPI 3	GPI 3
PIN 5	GPI 1	GPI4	NC	RS485 RXB	GPI 4	GPI 4	GPI 4
PIN 6	GPO 2	GPO0	NC	RS485 TXB	GPO 0	GPO 0	GPI 5
PIN 7	NC	GPO1	NC	GPI6	GPO 1	GPO 1	GPI 6
PIN 8	NC	GND	NC	GND	GND	GND	GND

Connection Diagram

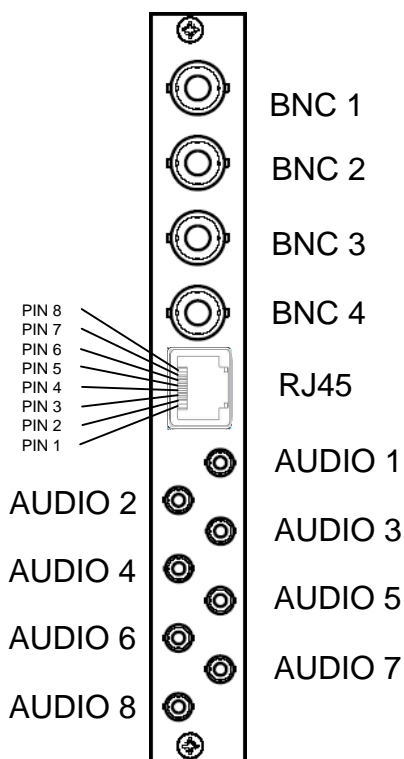


The output current of the GPO signals is limited! Please amplify when a low impedance load is used.

	G/HDS010 G/H/SFS010 G/HSU010 GXG/HXH010	G/HSD100	2TG100	G/HXD010	G/HX100/110
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN 1	NC	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1
BNC 2	NC	SD/HD/3G SDI IN 2	NC	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2
BNC 3	SD/HD/3G SDI OUT A1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT A1	SD/HD/3G SDI MAIN OUT 1	SD/HD/3G SDI MAIN OUT 1
BNC 4	SD/HD/3G SDI OUT A2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT A2	SD/HD/3G SDI MAIN OUT 2	SD/HD/3G SDI MAIN OUT 2
BNC 5	SD/HD/3G SDI OUT A3	SD/HD/3G SDI OUT 3	SD/HD/3G SDI OUT A3	SD/HD/3G SDI BACKUP OUT 1	SD/HD/3G SDI BACKUP OUT 1
BNC 6	SD/HD/3G SDI OUT A4	SD/HD/3G SDI OUT 4	SD/HD/3G SDI OUT A4	SD/HD/3G SDI BACKUP OUT 2	SD/HD/3G SDI BACKUP OUT 2
BNC 7	NC	SD/HD/3G SDI IN 3	NC	SD/HD/3G SDI NC	SD/HD/3G SDI IN 3
BNC 8	NC	SD/HD/3G SDI IN 4	NC	SD/HD/3G SDI NC	SD/HD/3G SDI IN 4
RJ 45	GPI I/O			GPI I/O	GPI I/O
PIN 1	GPI 0	GPI 0	NC	GPI 0	GPI 0
PIN 2	GPI 1	GPI 1	NC	GPI 1	GPI 1
PIN 3	GPI 2	GPI 2	NC	GPI 2	GPI 2
PIN 4	GPI 3	GPI 3	NC	GPI 3	GPI 3
PIN 5	GPI 4	GPI 4	NC	GPI 4	GPI 4
PIN 6	GPO 0	GPI 5	NC	GPI 5	GPI 5
PIN 7	GPO 1	GPI 6	NC	GPI 6	GPI 6
PIN 8	GND	GND	NC	GND	GND

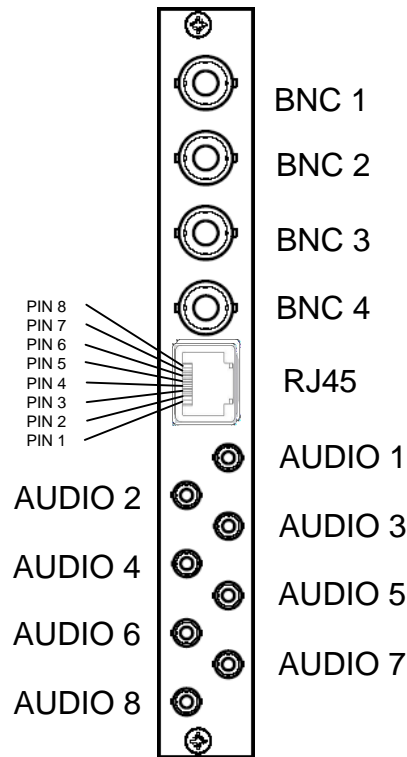
Application Example GPIO G/HXD010/100/100:

- PIN 1 GPI 0 Video preset switch 0
- PIN 2 GPI 1 Video preset switch 1
- PIN 3 GPO 2 Probe-A error
- PIN 4 GPO 3 Probe-B error
- PIN 5 GPO 4 Active input for output-A
- PIN 6 GPO 5 Active input for output-B
- PIN 7 GPI 6 Audio preset switch 0
- PIN 8 GND



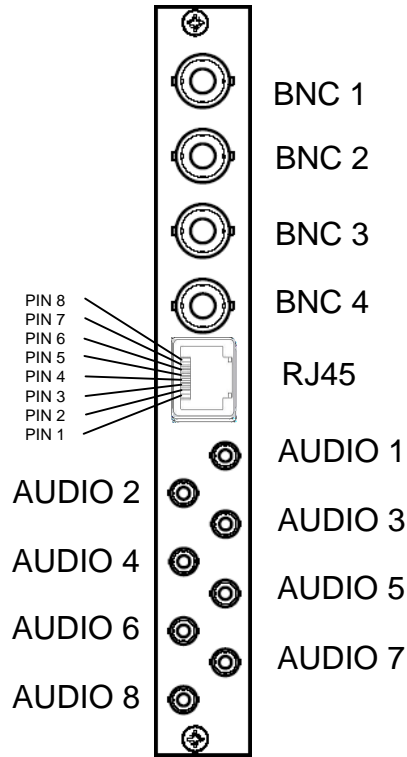
	G/HEB400 G/HEB500	G/HEB440 G/HEB550	G/HDB400 G/HDB500	G/HDB440 G/HDB550	G/HRB550 G/HRF550	G/HRB590 G/HRF590	G/HEB800 G/HEB900
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
RJ 45							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)
ANALOG AUDIO INPUTS							
AUDIO 1	A1pos IN / GND	A1pos IN / GND	A1pos OUT / GND	A1pos OUT / GND	A1pos IN / GND	A1pos IN / GND	D1 IN
AUDIO 2	A2pos IN / GND	A2pos IN / GND	A2pos OUT / GND	A2pos OUT / GND	A2pos IN / GND	A2pos IN / GND	D2 IN
AUDIO 3	A3pos IN / GND	A3pos IN / GND	A3pos OUT / GND	A3pos OUT / GND	A3pos IN / GND	A3pos IN / GND	D3 IN
AUDIO 4	A4pos IN / GND	A4pos IN / GND	A4pos OUT / GND	A4pos OUT / GND	A4pos IN / GND	A4pos IN / GND	D4 IN
AUDIO 5		A5pos IN / GND		A5pos OUT / GND	A1pos OUT / GND		D1 OUT
AUDIO 6		A6pos IN / GND		A6pos OUT / GND	A2pos OUT / GND		D2 OUT
AUDIO 7		A7pos IN / GND		A7pos OUT / GND	A3pos OUT / GND		D3 OUT
AUDIO 8		A8pos IN / GND		A8pos OUT / GND	A4pos OUT / GND		D4 OUT
	*See note below	*See note below	*See note below	*See note below	*See note below	*See note below	*See note below

NOTE: Analog unbalanced inputs/outputs gives 6dB signal level reduction, for correct usage of analog audio signals use BPH18D instead



	G/HEB840 G/HEB950	G/HEB880 G/HEB990	G/HDB800 G/HDB900	G/HDB840 G/HDB950	G/HDB880 G/HDB990	G/HRB950 G/HRF950	G/HRB990 G/HRF990
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
RJ 45							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)
ANALOG AUDIO INPUTS							
AUDIO 1	D1 IN	D1 IN	D1 OUT	D1 OUT	D1 OUT	D1 IN	D1 IN
AUDIO 2	D2 IN	D2 IN	D2 OUT	D2 OUT	D2 OUT	D2 IN	D2 IN
AUDIO 3	D3 IN	D3 IN	D3 OUT	D3 OUT	D3 OUT	D3 IN	D3 IN
AUDIO 4	D4 IN	D4 IN	D4 OUT	D4 OUT	D4 OUT	D4 IN	D4 IN
AUDIO 5	A1pos IN / GND	D5 IN		A1pos OUT / GND	D5 OUT	A1pos OUT / GND	D1 OUT
AUDIO 6	A2pos IN / GND	D6 IN		A2pos OUT / GND	D6 OUT	A2pos OUT / GND	D2 OUT
AUDIO 7	A3pos IN / GND	D7 IN		A3pos OUT / GND	D7 OUT	A3pos OUT / GND	D3 OUT
AUDIO 8	A4pos IN / GND	D8 IN		A4pos OUT / GND	D8 OUT	A4pos OUT / GND	D4 OUT
	*See note below	*See note below	*See note below	*See note below	*See note below	*See note below	*See note below

NOTE: Analog unbalanced inputs/outputs gives 6dB signal level reduction, for correct usage of analog audio signals use BPH18D instead



	G/HAF500 G/HRF500	G/HAF900 G/HRF900	G/HRF050	G/HRF090
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
RJ 45				
PIN 1	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)
Coaxial				
AUDIO 1	A1pos IN / GND	D1 IN		
AUDIO 2	A2pos IN / GND	D2 IN		
AUDIO 3	A3pos IN / GND	D3 IN		
AUDIO 4	A4pos IN / GND	D4 IN		
AUDIO 5			A1pos OUT / GND	D1 OUT
AUDIO 6			A2pos OUT / GND	D2 OUT
AUDIO 7			A3pos OUT / GND	D3 OUT
AUDIO 8			A4pos OUT / GND	D4 OUT

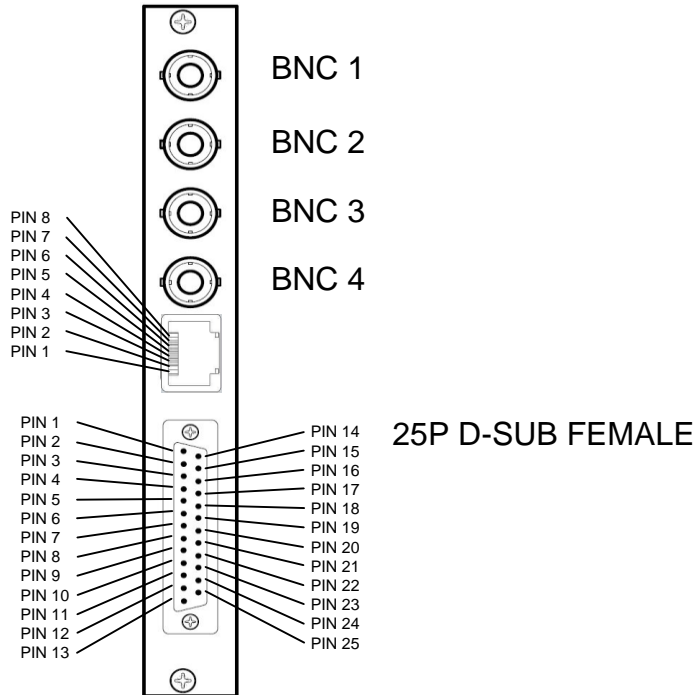
*See note below

*See note below

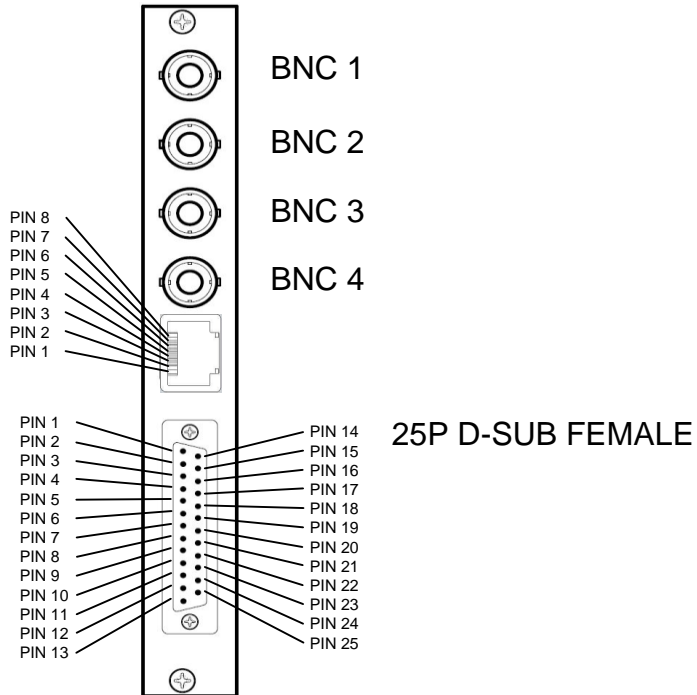
*See note below

*See note below

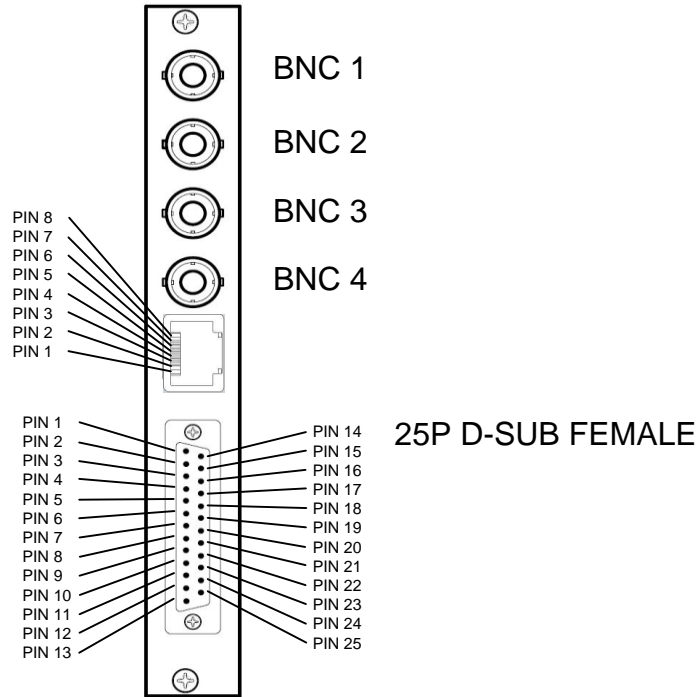
NOTE: Analog unbalanced inputs/outputs gives 6dB signal level reduction, for correct usage of analog audio signals use BPH18D instead



	G/HEB400 G/HEB500	G/HEB440 G/HEB550	G/HDB400 G/HDB500	G/HDB440 G/HDB550	G/HRB550 G/HRF550	G/HRB590 G/HRF590	G/HEB800 G/HEB900
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
25P D-SUB FEMALE							
PIN 1	A1neg IN	A1neg IN	A1neg OUT	A1neg OUT	A1neg IN	A1neg IN	D1neg IN
PIN 2	A1pos IN	A1pos IN	A1pos OUT	A1pos OUT	A1pos IN	A1pos IN	D1pos IN
PIN 3	GND	GND	GND	GND	GND	GND	GND
PIN 4	A3neg IN	A3neg IN	A3neg OUT	A3neg OUT	A3neg IN	A3neg IN	D3neg IN
PIN 5	A3pos IN	A3pos IN	A3pos OUT	A3pos OUT	A3pos IN	A3pos IN	D3pos IN
PIN 6	GND	GND	GND	GND	GND	GND	GND
PIN 7		A5neg IN		A5neg OUT	A5neg OUT	D5neg OUT	
PIN 8		A5pos IN		A5pos OUT	A5pos OUT	D5pos OUT	
PIN 9	GND	GND	GND	GND	GND	GND	GND
PIN 10		A7neg IN		A7neg OUT	A7neg OUT	D7neg OUT	
PIN 11		A7pos IN		A7pos OUT	A7pos OUT	D7pos OUT	
PIN 12	GND	GND	GND	GND	GND	GND	GND
PIN 13							
PIN 14	GND	GND	GND	GND	GND	GND	GND
PIN 15	A2neg IN	A2neg IN	A2neg OUT	A2neg OUT	A2neg IN	A2neg IN	D2neg IN
PIN 16	A2pos IN	A2pos IN	A2pos OUT	A2pos OUT	A2pos IN	A2pos IN	D2pos IN
PIN 17	GND	GND	GND	GND	GND	GND	GND
PIN 18	A4neg IN	A4neg IN	A4neg OUT	A4neg OUT	A4neg IN	A4neg IN	D4neg IN
PIN 19	A4pos IN	A4pos IN	A4pos OUT	A4pos OUT	A4pos IN	A4pos IN	D4pos IN
PIN 20	GND	GND	GND	GND	GND	GND	GND
PIN 21		A6neg IN		A6neg OUT	A6neg OUT	D6neg OUT	
PIN 22		A6pos IN		A6pos OUT	A6pos OUT	D6pos OUT	
PIN 23	GND	GND	GND	GND	GND	GND	GND
PIN 24		A8neg IN		A8neg OUT	A8neg OUT	D8neg OUT	
PIN 25		A8pos IN		A8pos OUT	A8pos OUT	D8pos OUT	
RJ 45							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)



	G/HEB840 G/HEB950	G/HEB880 G/HEB990	G/HDB800 G/HDB900	G/HDB840 G/HDB950	G/HDB880 G/HDB990	G/HRB950 G/HRF950	G/HRB990 G/HRF990
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
25P D-SUB FEMALE							
PIN 1	D1neg IN	D1neg IN	D1neg OUT	D1neg OUT	D1neg OUT	D1neg IN	D1neg IN
PIN 2	D1pos IN	D1pos IN	D1pos OUT	D1pos OUT	D1pos OUT	D1pos IN	D1pos IN
PIN 3	GND	GND	GND	GND	GND	GND	GND
PIN 4	D3neg IN	D3neg IN	D3neg OUT	D3neg OUT	D3neg OUT	D3neg IN	D3neg IN
PIN 5	D3pos IN	D3pos IN	D3pos OUT	D3pos OUT	D3pos OUT	D3pos IN	D3pos IN
PIN 6	GND	GND	GND	GND	GND	GND	GND
PIN 7	A1neg IN	D5neg IN		A1neg OUT	D5neg OUT	A5neg OUT	D5neg OUT
PIN 8	A1pos IN	D5pos IN		A1pos OUT	D5pos OUT	A5pos OUT	D5pos OUT
PIN 9	GND	GND	GND	GND	GND	GND	GND
PIN 10	A3neg IN	D7neg IN		A3neg OUT	D7neg OUT	A7neg OUT	D7neg OUT
PIN 11	A3pos IN	D7pos IN		A3pos OUT	D7pos OUT	A7pos OUT	D7pos OUT
PIN 12	GND	GND	GND	GND	GND	GND	GND
PIN 13							
PIN 14	GND	GND	GND	GND	GND	GND	GND
PIN 15	D2neg IN	D2neg IN	D2neg OUT	D2neg OUT	D2neg OUT	D2neg IN	D2neg IN
PIN 16	D2pos IN	D2pos IN	D2pos OUT	D2pos OUT	D2pos OUT	D2pos IN	D2pos IN
PIN 17	GND	GND	GND	GND	GND	GND	GND
PIN 18	D4neg IN	D4neg IN	D4neg OUT	D4neg OUT	D4neg OUT	D4neg IN	D4neg IN
PIN 19	D4pos IN	D4pos IN	D4pos OUT	D4pos OUT	D4pos OUT	D4pos IN	D4pos IN
PIN 20	GND	GND	GND	GND	GND	GND	GND
PIN 21	A2neg IN	D6neg IN		A2neg OUT	D6neg OUT	A6neg OUT	D6neg OUT
PIN 22	A2pos IN	D6pos IN		A2pos OUT	D6pos OUT	A6pos OUT	D6pos OUT
PIN 23	GND	GND	GND	GND	GND	GND	GND
PIN 24	A4neg IN	D8neg IN		A4neg OUT	D8neg OUT	A8neg OUT	D8neg OUT
PIN 25	A4pos IN	D8pos IN		A4pos OUT	D8pos OUT	A8pos OUT	D8pos OUT
RJ 45							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)

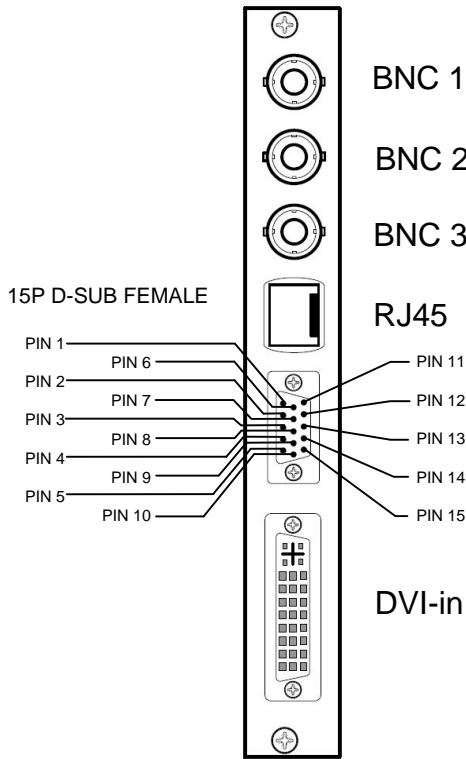


G/HAF500 G/HRF500	G/HAF900 G/HRF900	G/HRB100 G/HEP100/130 G/HPD100/130 G/HED100/130 G/HJA420/440 G/HJA840/880	GAW010/100/110/300 HAW010/100/110/300 SAW010/100/110/300	G/HRF050	G/HRF090
----------------------	----------------------	--	--	----------	----------

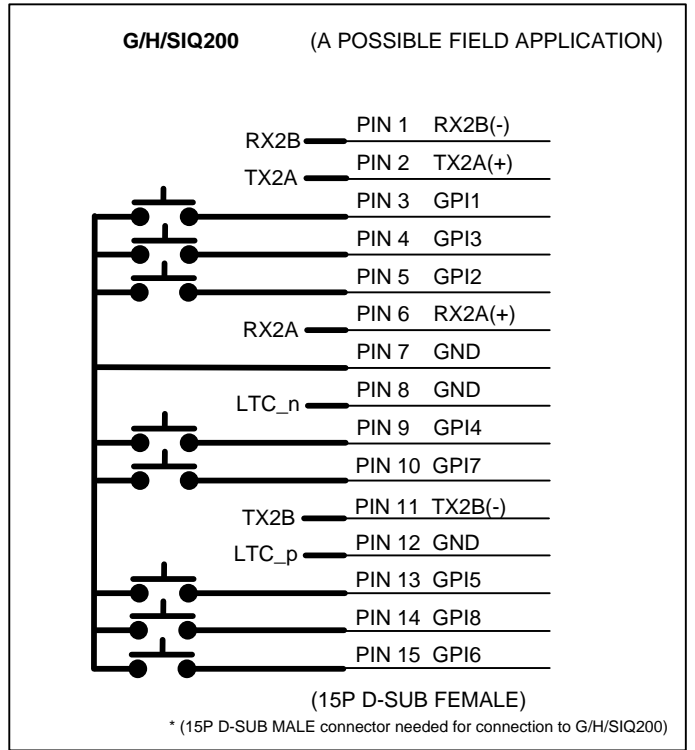
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B

25P D-SUB FEMALE						
PIN 1	A1neg IN	D1neg IN				
PIN 2	A1pos IN	D1pos IN				
PIN 3	GND	GND	GND	GND	GND	GND
PIN 4	A3neg IN	D3neg IN				
PIN 5	A3pos IN	D3pos IN				
PIN 6	GND	GND	GND	GND	GND	GND
PIN 7					A5neg OUT	D5neg OUT
PIN 8					A5pos OUT	D5pos OUT
PIN 9	GND	GND	GND	GND	GND	GND
PIN 10					A7neg OUT	D7neg OUT
PIN 11					A7pos OUT	D7pos OUT
PIN 12	GND	GND	GND	GND	GND	GND
PIN 13						
PIN 14	GND	GND	GND	GND	GND	GND
PIN 15	A2neg IN	D2neg IN				
PIN 16	A2pos IN	D2pos IN				
PIN 17	GND	GND	GND	GND	GND	GND
PIN 18	A4neg IN	D4neg IN				
PIN 19	A4pos IN	D4pos IN				
PIN 20	GND	GND	GND	GND	GND	GND
PIN 21					A6neg OUT	D6neg OUT
PIN 22					A6pos OUT	D6pos OUT
PIN 23	GND	GND	GND	GND	GND	GND
PIN 24					A8neg OUT	D8neg OUT
PIN 25					A8pos OUT	D8pos OUT

RJ 45						
PIN 1	GND	GND	GND	GND	GND	GND
PIN 2	GPIO 1	GPIO 1	GPIO 1	GPO 1	GPIO 1	GPIO 1
PIN 3	GPIO 2	GPIO 2	GPIO 2	GPO 2	GPIO 2	GPIO 2
PIN 4	GPIO 3	GPIO 3	GPIO 3	NC	GPIO 3	GPIO 3
PIN 5	GPIO 4 / TXA(+)	GPIO 4 / TXA(+)	GPIO 4 / TXA(+)	NC	GPIO 4 / TXA(+)	GPIO 4 / TXA(+)
PIN 6	GPIO 5 / TXB(-)	GPIO 5 / TXB(-)	GPIO 5 / TXB(-)	NC	GPIO 5 / TXB(-)	GPIO 5 / TXB(-)
PIN 7	GPIO 6 / RXA(+)	GPIO 6 / RXA(+)	GPIO 6 / RXA(+)	LTC IN (+)	GPIO 6 / RXA(+)	GPIO 6 / RXA(+)
PIN 8	GPIO 7 / RXB(-)	GPIO 7 / RXB(-)	GPIO 7 / RXB(-)	LTC IN (-)	GPIO 7 / RXB(-)	GPIO 7 / RXB(-)



Connection Diagram



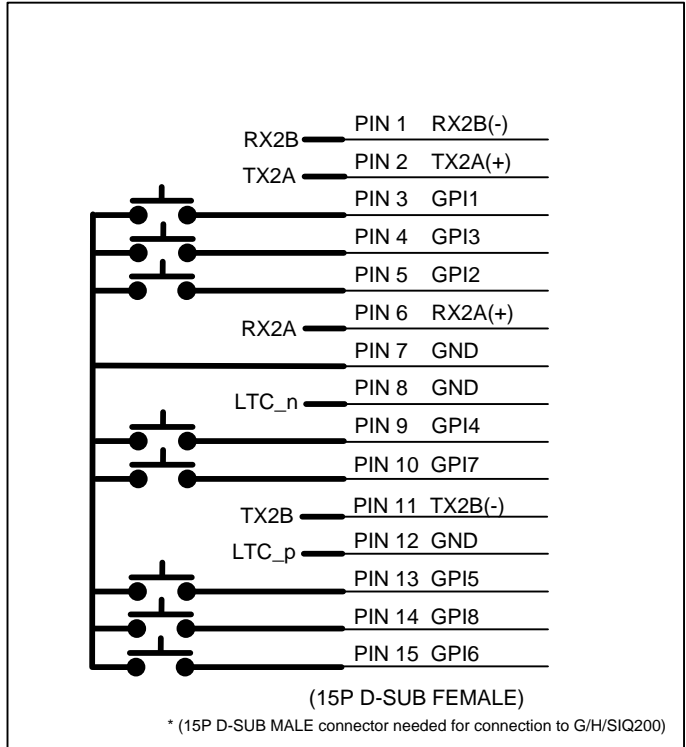
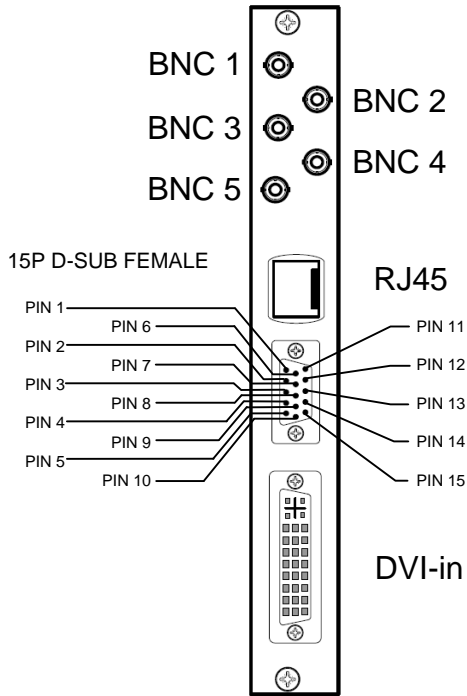
G/H/SIQ200

BNC 1	SD/HD/3G SDI IN 1
BNC 2	SD/HD/3G SDI IN 2
BNC 3	SD/HD/3G SDI IN 3

15P HD-SUB FEMALE

PIN 1	RX2B(-)
PIN 2	TX2A(+)
PIN 3	GPI 1
PIN 4	GPI 3
PIN 5	GPI 2
PIN 6	RX2A(+)
PIN 7	GND
PIN 8	LTC_n
PIN 9	GPI 4
PIN 10	GPI 7
PIN 11	TX2B(-)
PIN 12	LTC_p
PIN 13	GPI 5
PIN 14	GPI 8
PIN 15	GPI 6

Connection Diagram



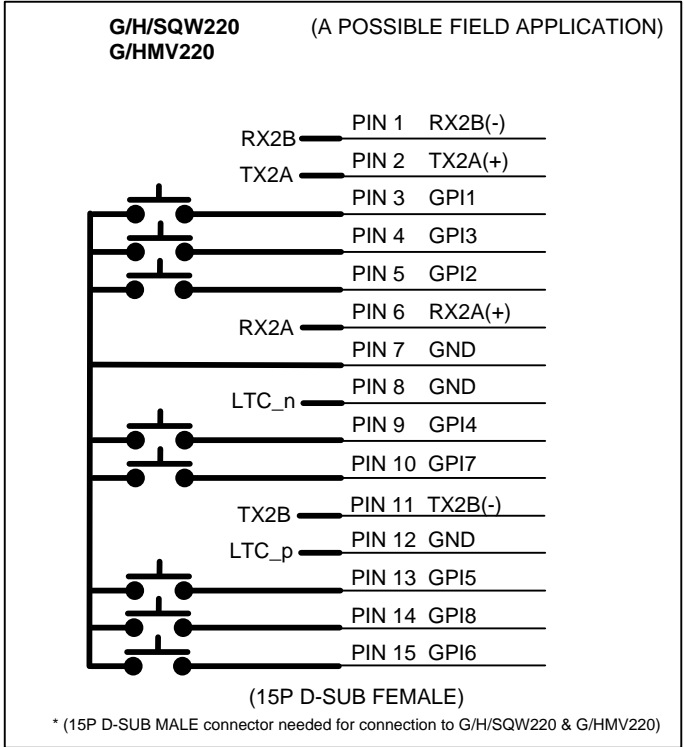
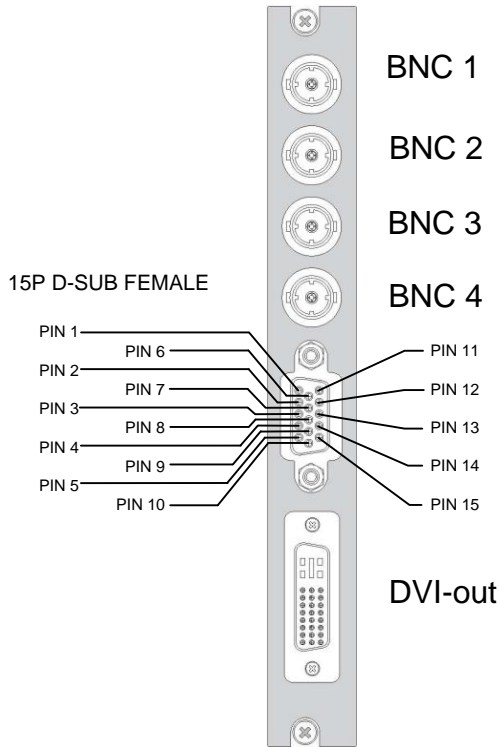
G/H/SIQ200

BNC 1	SD/HD/3G SDI IN 1
BNC 2	SD/HD/3G SDI IN 2
BNC 3	SD/HD/3G SDI IN 3
BNC 4	SD/HD/3G SDI OUT 1
BNC 5	SD/HD/3G SDI OUT 2

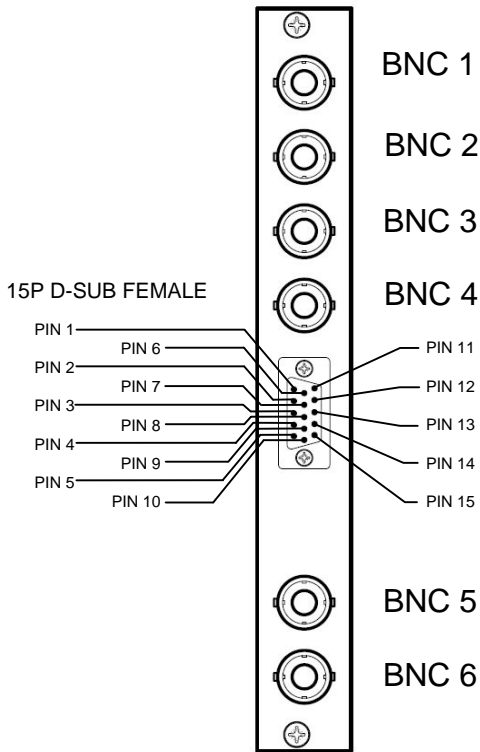
15P HD-SUB FEMALE

PIN 1	RX2B(-)
PIN 2	TX2A(+)
PIN 3	GPI 1
PIN 4	GPI 3
PIN 5	GPI 2
PIN 6	RX2A(+)
PIN 7	GND
PIN 8	LTC_n
PIN 9	GPI 4
PIN 10	GPI 7
PIN 11	TX2B(-)
PIN 12	LTC_p
PIN 13	GPI 5
PIN 14	GPI 8
PIN 15	GPI 6

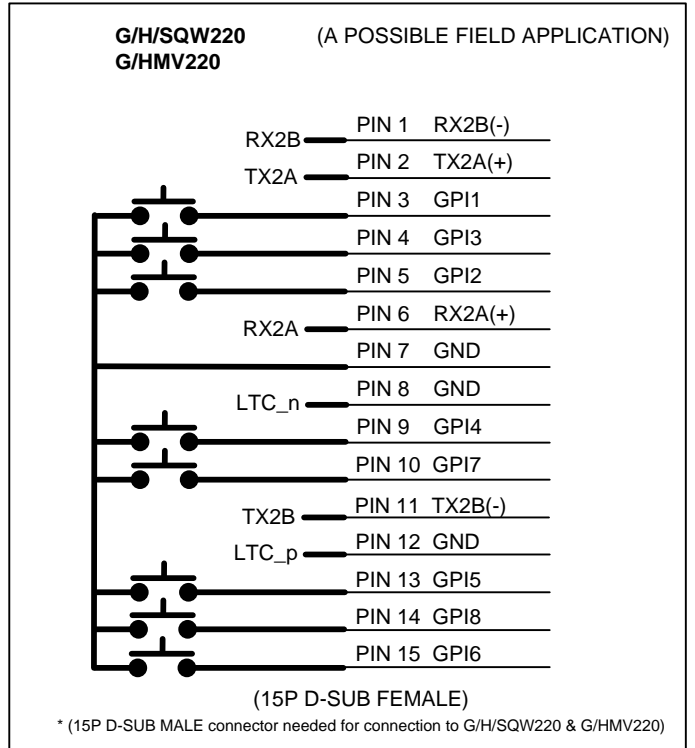
Connection Diagram



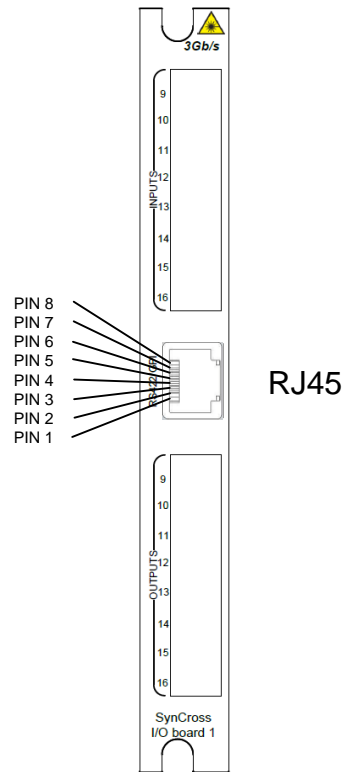
	G/H/SQW220	G/HMV220	G/HMW100	G/H/SQW200	G/HMV200
BNC 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1
BNC 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2
BNC 3	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3	NC	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3
BNC 4	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4	NC	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4
15P HD-SUB FEMALE					
PIN 1	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)
PIN 2	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)
PIN 3	GPI 1	GPI 1	GPI 1	GPI 1	GPI 1
PIN 4	GPI 3	GPI 3	NC	GPI 3	GPI 3
PIN 5	GPI 2	GPI 2	GPI 2	GPI 2	GPI 2
PIN 6	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)
PIN 7	GND	GND	GND	GND	GND
PIN 8	LTC_n	LTC_n	LTC (-)	NC	NC
PIN 9	GPI 4	GPI 4	NC	GPI 4	GPI 4
PIN 10	GPI 7	GPI 7	GPI 7	GPI 7	GPI 7
PIN 11	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)
PIN 12	LTC_p	LTC_p	LTC (+)	NC	NC
PIN 13	GPI 5	GPI 5	GPI 5	GPI 5	GPI 5
PIN 14	GPI 8	GPI 8	GPI 8	GPI 8	GPI 8
PIN 15	GPI 6	GPI 6	GPI 6	GPI 6	GPI 6



Connection Diagram



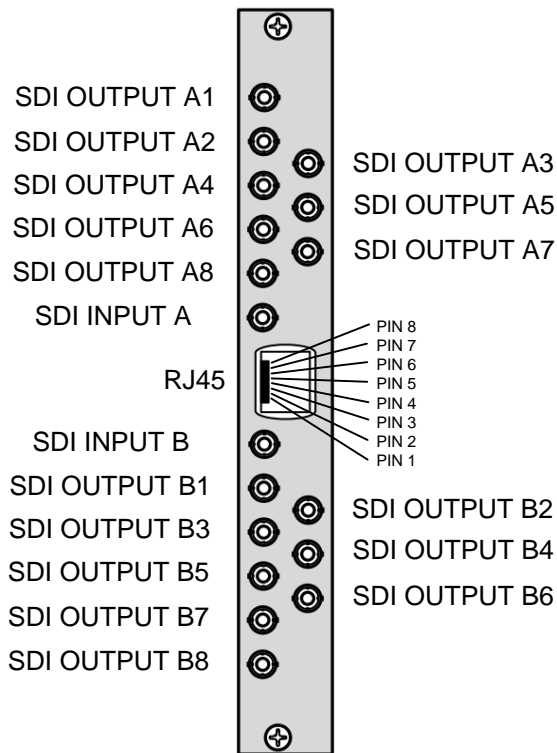
	G/H/SQW220	G/HMV220	G/HMW200			
BNC 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	
BNC 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	
BNC 3	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3	NC	SD/HD/3G SDI IN 3	SD/HD/3G SDI IN 3	
BNC 4	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4	NC	SD/HD/3G SDI IN 4	SD/HD/3G SDI IN 4	
BNC 5	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1	
BNC 6	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2	
15P HD-SUB FEMALE						
PIN 1	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)	RX2B(-)	
PIN 2	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)	TX2A(+)	
PIN 3	GPI 1	GPI 1	GPI 1	GPI 1	GPI 1	
PIN 4	GPI 3	GPI 3	NC	GPI 3	GPI 3	
PIN 5	GPI 2	GPI 2	GPI 2	GPI 2	GPI 2	
PIN 6	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)	RX2A(+)	
PIN 7	GND	GND	GND	GND	GND	
PIN 8	LTC_n	LTC_n	LTC (-)	NC	NC	
PIN 9	GPI 4	GPI 4	NC	GPI 4	GPI 4	
PIN 10	GPI 7	GPI 7	GPI 7	GPI 7	GPI 7	
PIN 11	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)	TX2B(-)	
PIN 12	LTC_p	LTC_p	LTC (+)	NC	NC	
PIN 13	GPI 5	GPI 5	GPI 5	GPI 5	GPI 5	
PIN 14	GPI 8	GPI 8	GPI 8	GPI 8	GPI 8	
PIN 15	GPI 6	GPI 6	GPI 6	GPI 6	GPI 6	



SYNCRSS

RJ45

PIN 1	GP17 / RXB
PIN 2	GP16 / RXA
PIN 3	GP15 / TXB
PIN 4	GP14 / TXA
PIN 5	GP1/O 3
PIN 6	GP1/O 2
PIN 7	GP1/O 1
PIN 8	GND



GDR216

RJ45

PIN 1	GPIO 1
PIN 2	GPIO 2
PIN 3	GPIO 3
PIN 4	GND
PIN 5	GPIO 4
PIN 6	GPIO 5
PIN 7	GPIO 6
PIN 8	GPIO 7

GDR216

RJ45

PIN 1	GPIO 1
PIN 2	GPIO 2
PIN 3	GPIO 3
PIN 4	GND
PIN 5	GPIO 4
PIN 6	GPIO 5
PIN 7	GPIO 6
PIN 8	GPIO 7

GDR216

RJ45

PIN 1	GPIO 1
PIN 2	GPIO 2
PIN 3	GPIO 3
PIN 4	GND
PIN 5	GPIO 4
PIN 6	GPIO 5
PIN 7	GPIO 6
PIN 8	GPIO 7

GDR216

RJ45

PIN 1	GPIO 1
PIN 2	GPIO 2
PIN 3	GPIO 3
PIN 4	GND
PIN 5	GPIO 4
PIN 6	GPIO 5
PIN 7	GPIO 6
PIN 8	GPIO 7



BNC 1
 BNC 2
 BNC 3
 BNC 4
 BNC 5
 BNC 6
 BNC 7

PIN 1 Audio 1
 PIN 2
 PIN 3
 PIN 4 Audio 2
 PIN 5
 PIN 6

Onboard switch setting (twice)



+12dBu



+15dBu



+18dBu



+24dBu

BNC output standard +6dBu

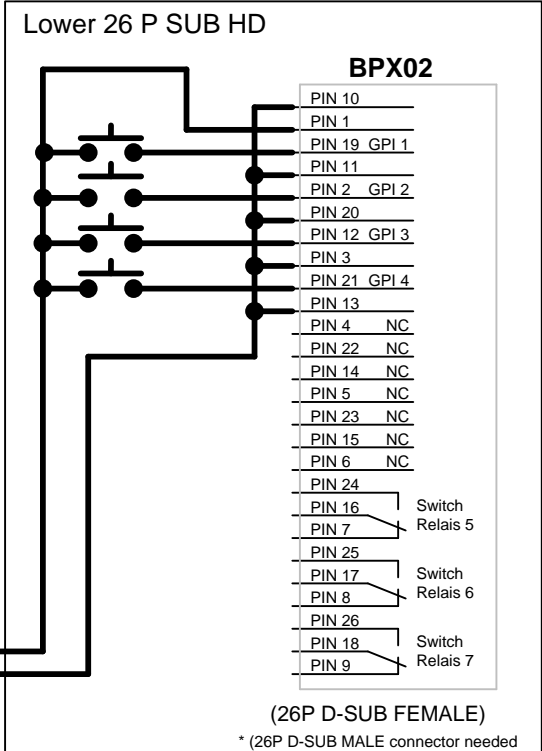
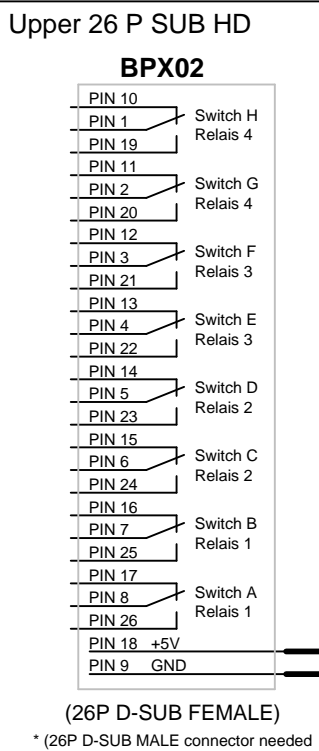
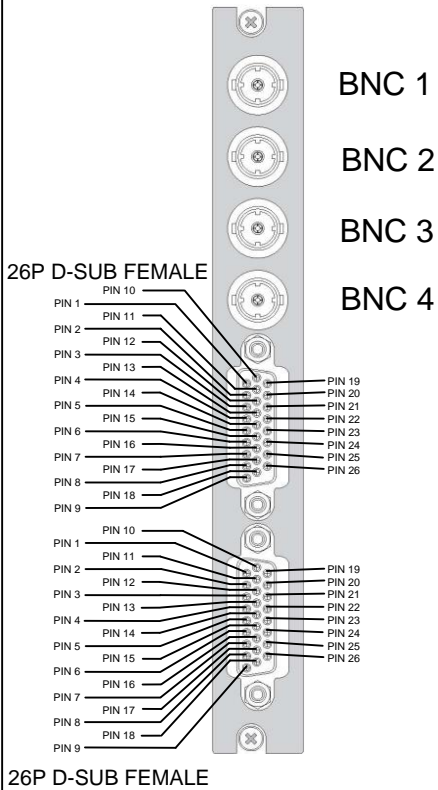
SAM08

BNC 1	SDI IN
BNC 2	SDI OUT 1
BNC 3	SDI OUT 2
BNC 4	SDI OUT 3
BNC 5	SDI OUT 4
BNC 6	CVBS/Y OUT
BNC 7	CVBS/Y OUT

Terminal strips	Analog audio outputs
PIN 1	Audio 1 A
PIN 2	Audio 1 B
PIN 3	GND
PIN 4	Audio 2 A
PIN 5	Audio 2 B
PIN 6	GND

*See note below

Connection Diagram

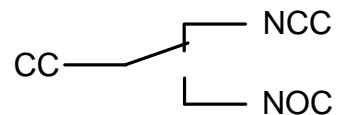


PBS03

BNC 1	CHANNEL 1 IN
BNC 2	CHANNEL 2 IN
BNC 3	CHANNEL 2 OUT
BNC 4	CHANNEL 1 OUT
UPPER 26P HD-SUB	
PIN 1	H CC
PIN 2	G CC
PIN 3	F CC
PIN 4	E CC
PIN 5	D CC
PIN 6	C CC
PIN 7	B CC
PIN 8	A CC
PIN 9	GND
PIN 10	H NCC
PIN 11	G NCC
PIN 12	F NCC
PIN 13	E NCC
PIN 14	D NCC
PIN 15	C NCC
PIN 16	B NCC
PIN 17	A NCC
PIN 18	5 Volt pos.
PIN 19	H NOC
PIN 20	G NOC
PIN 21	F NOC
PIN 22	E NOC
PIN 23	D NOC
PIN 24	C NOC
PIN 25	B NOC
PIN 26	A NOC

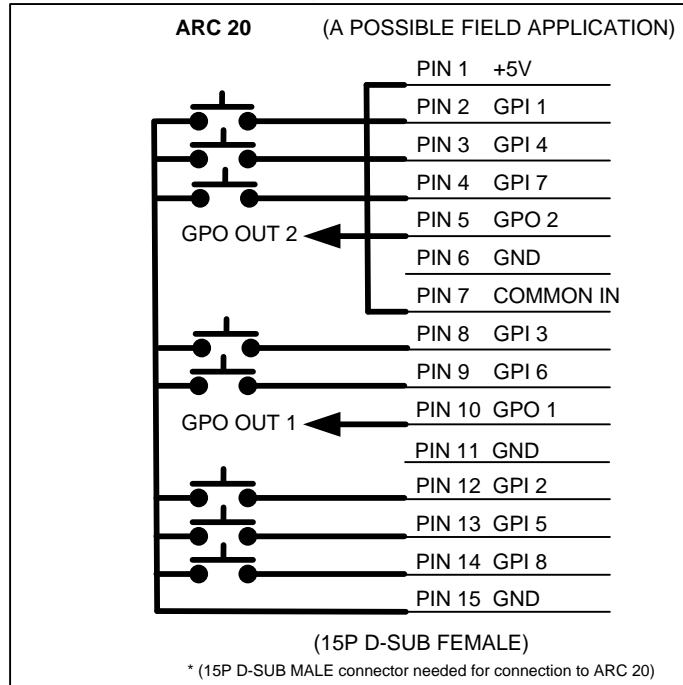
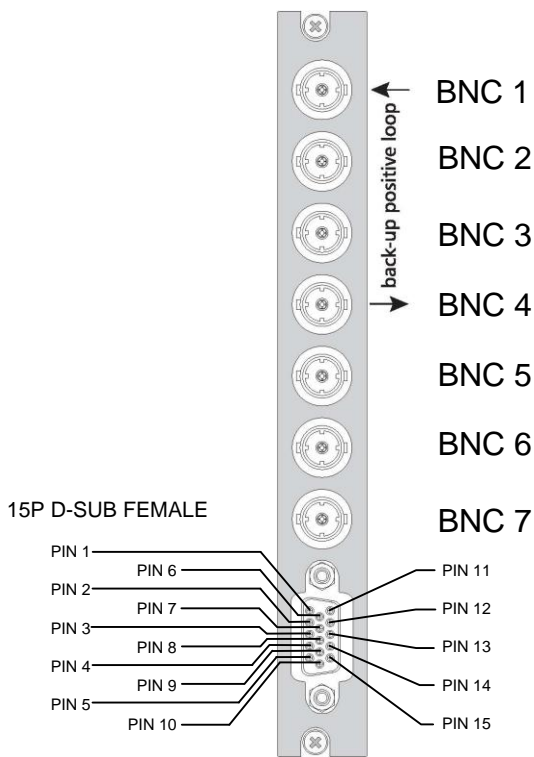
PBS03

LOWER 26P HD-SUB	
PIN 1	5 Volt pos.
PIN 2	GPI 2 +
PIN 3	GPI 3 -
PIN 4	NC
PIN 5	NC
PIN 6	NC
PIN 7	ACTIVE CH NCC
PIN 8	CHANNEL 1 NCC
PIN 9	CHANNEL 2 NCC
PIN 10	GND
PIN 11	GPI 1 -
PIN 12	GPI 3 +
PIN 13	GPI 4 -
PIN 14	NC
PIN 15	NC
PIN 16	ACTIVE CH C
PIN 17	CHANNEL 1 C
PIN 18	CHANNEL 2 C
PIN 19	GPI 1 +
PIN 20	GPI 2 -
PIN 21	GPI 4 +
PIN 22	NC
PIN 23	NC
PIN 24	ACTIVE CH NOC
PIN 25	CHANNEL 1 NOC
PIN 26	CHANNEL 2 NOC



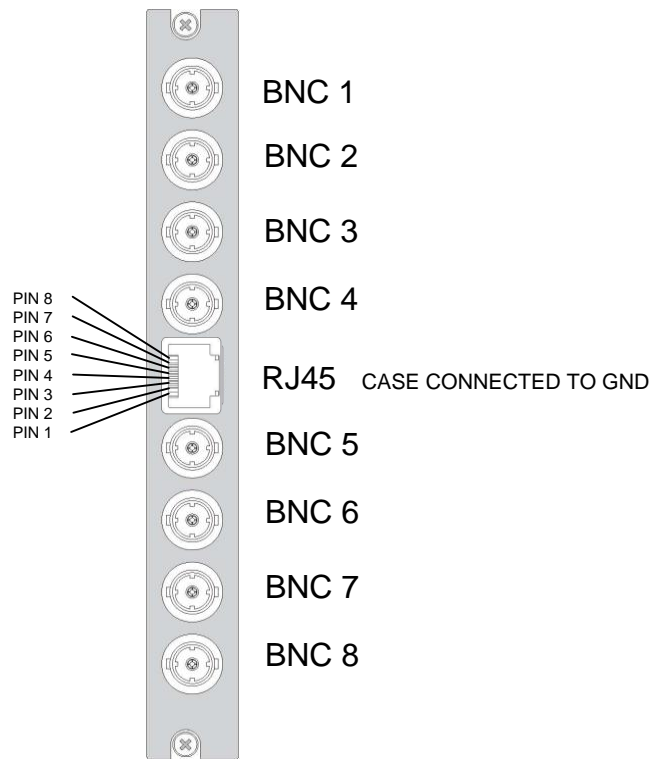
CC : center contact
NCC : normally closed contact
NOC : normally open contact

Connection Diagram

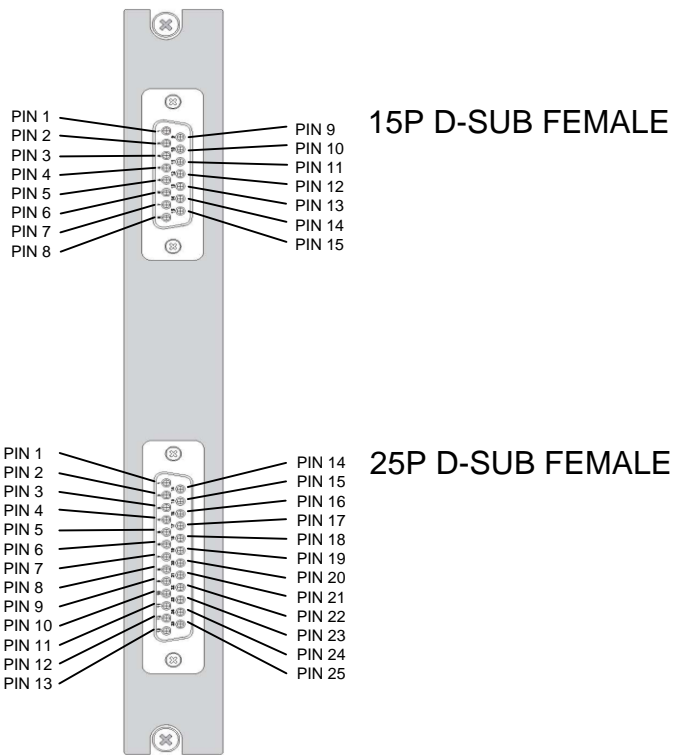


The output current of the GPO signals is limited! Please amplify when a low impedance load is used.

	SAS30	ARC 20	ARC 21	ARC 22	SDL30	SVD10
BNC 1	SDI IN	SDI IN	SDI IN	SDI IN	SDI IN	SDI IN
BNC 2	RECLK SDI OUT	RECLK SDI OUT	RECLK SDI OUT	RECLK SDI OUT	RECLK SDI OUT	RECLK SDI OUT
BNC 3	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT
BNC 4	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT	PROC SDI OUT
BNC 5	NC	G/Y/C	G/Y/C	G/Y/C	G/Y/C	G/Y/C
BNC 6	NC	B/Pb/Y	B/Pb/Y	B/Pb/Y	B/Pb/Y	B/Pb/Y
BNC 7	NC	R/Pr/C	R/Pr/C	R/Pr/C	R/Pr/C	R/Pr/C
15P HD-SUB FEMALE						
PIN 1	5 Volt pos.	5 Volt pos.	5 Volt pos.	5 Volt pos.	5 Volt pos.	NC
PIN 2	GPI 1	GPI 1	GPI 1	GPI 1	GPI 1	NC
PIN 3	GPI 4	GPI 4	GPI 4	GPI 4	GPI 4	NC
PIN 4	GPI 7	GPI 7	GPI 7	GPI 7	GPI 7	NC
PIN 5	NC	GPO 2	GPO 2	GPO 2	GPO 2	NC
PIN 6	GND	GND	GND	GND	GND	NC
PIN 7	COMMON IN	COMMON IN	COMMON IN	COMMON IN	COMMON IN	NC
PIN 8	GPI 3	GPI 3	GPI 3	GPI 3	GPI 3	NC
PIN 9	GPI 6	GPI 6	GPI 6	GPI 6	GPI 6	NC
PIN 10	NC	GPO 1	GPO 1	GPO 1	GPO 1	NC
PIN 11	GND	GND	GND	GND	GND	NC
PIN 12	GPI 2	GPI 2	GPI 2	GPI 2	GPI 2	NC
PIN 13	GPI 5	GPI 5	GPI 5	GPI 5	GPI 5	NC
PIN 14	GPI 8	GPI 8	GPI 8	GPI 8	GPI 8	NC
PIN 15	GND	GND	GND	GND	GND	NC



	21X08/09/10	21M08/09/10	2FS10	AS10	
BNC 1	SDI INA	SDI INA	SDI INA	ASI/DVB INA	
BNC 2	SDI OUT A-1	SDI OUT A-1	SDI OUT A-1	NC	
BNC 3	SDI OUT A-2	SDI OUT A-2	SDI OUT A-2	ASI/DVB OUT A-1	
BNC 4	SDI OUT A-3	SDI OUT A-3	SDI OUT A-3	ASI/DVB OUT A-2	
BNC 5	SDI IN B	SDI IN B	SDI IN B	ASI/DVB IN B	
BNC 6	SDI OUT B-1	SDI OUT B-1	SDI OUT B-1	NC	
BNC 7	SDI OUT B-2	SDI OUT B-2	SDI OUT B-2	ASI/DVB OUT B-1	
BNC 8	SDI OUT B-3	SDI OUT B-3	SDI OUT B-3	ASI/DVB OUT B-2	
RJ45	GPI I/O	GPI I/O	GPI I/O	GPI IO	
PIN 1	GPI 1 (InputSel: A=0 B=1)	GPI 1 (Not Applicable)	FREEZE 1	GPI 1 (InputSel: A=1 B=0)	
PIN 2	GND	GND	GND	GND	
PIN 3	GPI 2 (VWSS ins)	GPI 2 (VWSS ins)	FREEZE 2	GPI 2 (Reserved)	
PIN 4	GND	GND	GND	GND	
PIN 5	GPO 1 (Active_A: A=0 B=1)	GPO 1 (Not Applicable)	TRACKING 1	GPO 1 (Active_A: A=0 B=1)	
PIN 6	GND	GND	GND	GND	
PIN 7	GPO 2 ((inv)VWSS ins)	GPO 2 ((inv)VWSS ins)	TRACKING 2	GPO 2 (Active_B: A=0 B=1)	
PIN 8	GND	GND	GND	GND	



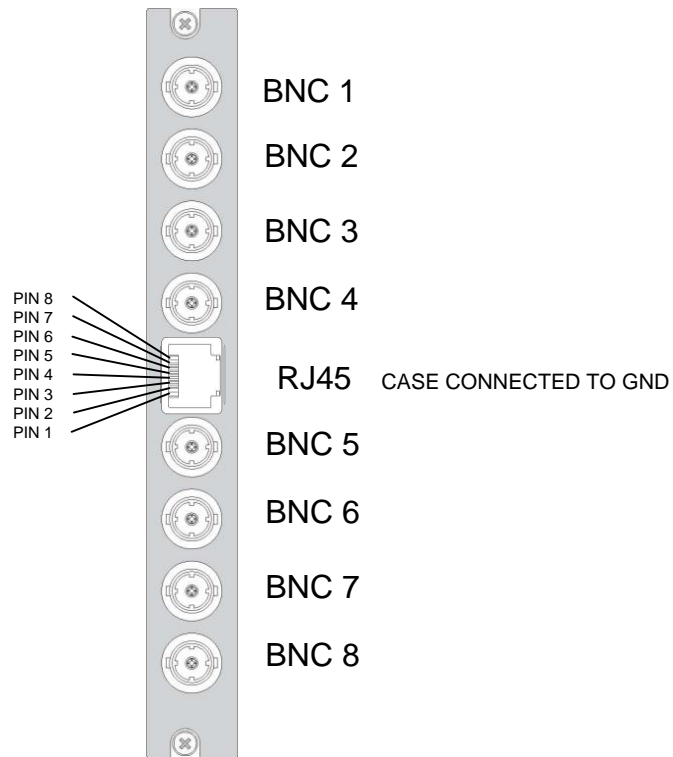
2A148

15P D-SUB FEMALE

PIN 1	GND
PIN 2	GND
PIN 3	TRACKING
PIN 4	NC
PIN 5	NC
PIN 6	NC
PIN 7	NC
PIN 8	NC
PIN 9	GND
PIN 10	NC
PIN 11	NC
PIN 12	NC
PIN 13	NC
PIN 14	NC
PIN 15	NC

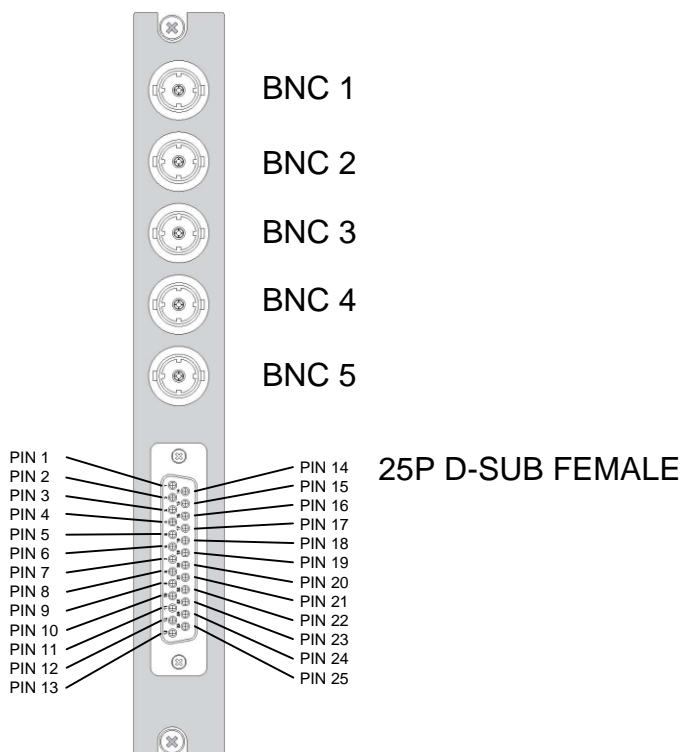
25P D-SUB FEMALE

PIN 1	AES1/2- IN
PIN 2	AES1/2+ IN
PIN 3	GND
PIN 4	AES5/6- IN
PIN 5	AES5/6+ IN
PIN 6	GND
PIN 7	AES1/2 + OUT
PIN 8	AES1/2 - OUT
PIN 9	GND
PIN 10	AES5/6 + OUT
PIN 11	AES5/6 - OUT
PIN 12	GND
PIN 13	GND
PIN 14	GND
PIN 15	AES3/4- IN
PIN 16	AES3/4+ IN
PIN 17	GND
PIN 18	AES7/8- IN
PIN 19	AES7/8+ IN
PIN 20	GND
PIN 21	AES3/4+ OUT
PIN 22	AES3/4 - OUT
PIN 23	GND
PIN 24	AES7/8+ OUT
PIN 25	AES7/8 - OUT



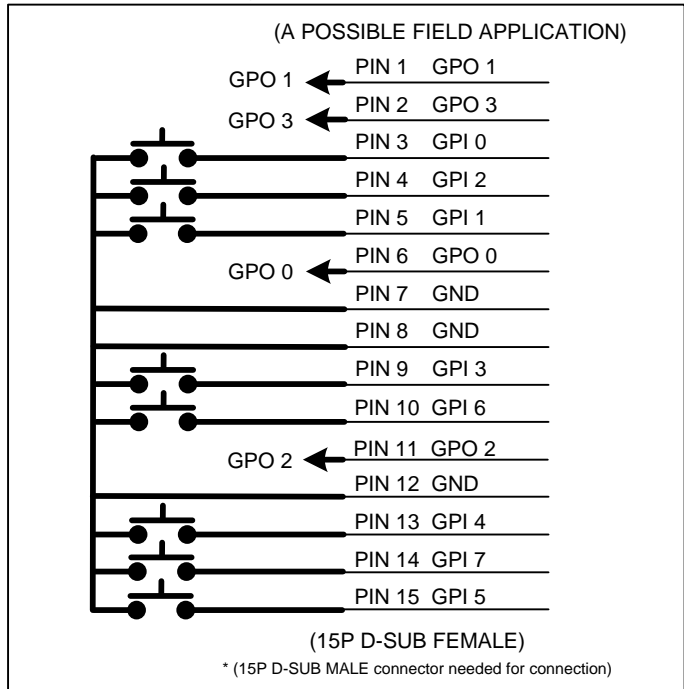
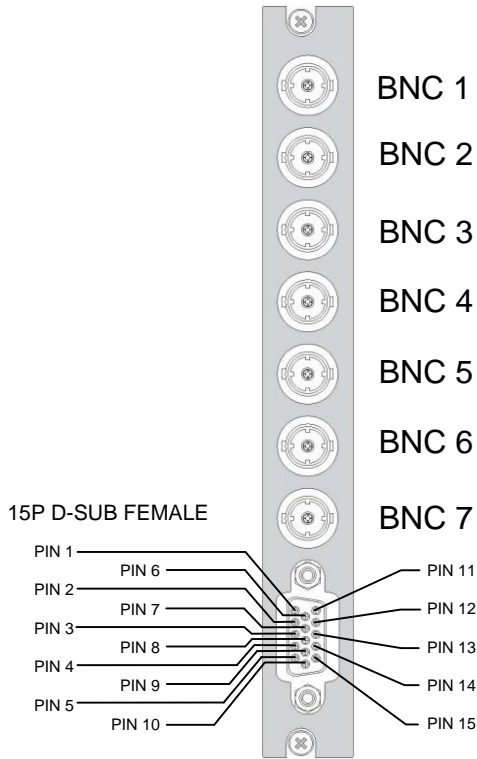
DLA41 DBD18 DAW77
 DLA42 DAW88
 DLA43 DAW99
 DLA44
 DSF66

BNC 1	AES IN 1	AES IN 1	AES / EBU IN 1 / 2	
BNC 2	AES IN 2	AES IN 2	AES / EBU IN 3 / 4	
BNC 3	AES IN 3	AES IN 3	AES / EBU IN 5 / 6	
BNC 4	AES IN 4	AES IN 4	AES / EBU IN 7 / 8	
BNC 5	AES OUT 1	AES OUT 1	AES / EBU OUT 1 / 2	
BNC 6	AES OUT 2	AES OUT 2	AES / EBU OUT 3 / 4	
BNC 7	AES OUT 3	AES OUT 3	AES / EBU OUT 5 / 6	
BNC 8	AES OUT 4	AES OUT 4	AES / EBU OUT 7 / 8	
RJ 45	GPI I/O	GPI I/O	GPI I/O	
PIN 1	GPI 1	Not used	Not used	
PIN 2	GPI 2	Not used	LTC (-)	
PIN 3	TXA (META DATA OUT)	Metadata (TXA+)	GPO 0	
PIN 4	RXA (META DATA IN)	Not used	Not used	
PIN 5	RXB (META DATA IN)	Not used	Not used	
PIN 6	TXB (META DATA OUT)	Metadata (TXA-)	GPO 1	
PIN 7	GPI 3	Not used	LTC (+)	
PIN 8	GND	GND	GND	



	HEB05/20	HDB05/20	HAS20	HVO10
BNC 1	SD/HD SDI IN	HD SDI IN	SD/HD SDI IN	HD SDI IN
BNC 2	RECLK HD SDI OUT	RECLK HD SDI OUT	RECLK HD SDI OUT	RECLK HD SDI OUT
BNC 3	SD/HD SDI + EMB. OUT	RECLK HD SDI OUT	SD/HD SDI + EMB. OUT	HD SDI OUT
BNC 4	SD/HD SDI + EMB. OUT	RECLK HD SDI OUT	SD/HD SDI + EMB. OUT	HD SDI OUT
BNC 5	GPI	GPI	NC	GPI
25P D-SUB FEMALE				
PIN 1	NC	NC	NC	NC
PIN 2	NC	NC	NC	NC
PIN 3	GND	GND	GND	GND
PIN 4	GND	GND	GND	GND
PIN 5	GND	GND	GND	GND
PIN 6	GND	GND	GND	GND
PIN 7	AES1- IN	AES1- OUT	AES1- IN	AES1- IN
PIN 8	AES1+ IN	AES1+ OUT	AES1+ IN	AES1+ IN
PIN 9	GND	GND	GND	GND
PIN 10	AES3- IN	AES3- OUT	AES3- IN	AES3- IN
PIN 11	AES3+ IN	AES3+ OUT	AES3+ IN	AES3+ IN
PIN 12	GND	GND	GND	GND
PIN 13	GND	GND	GND	GND
PIN 14	GND	GND	GND	GND
PIN 15	NC	NC	NC	NC
PIN 16	NC	NC	NC	NC
PIN 17	GND	GND	GND	GND
PIN 18	GND	GND	GND	GND
PIN 19	GND	GND	GND	GND
PIN 20	GND	GND	GND	GND
PIN 21	AES2- IN	AES2- OUT	AES2- IN	AES2- IN
PIN 22	AES2+ IN	AES2+ OUT	AES2+ IN	AES2+ IN
PIN 23	GND	GND	GND	GND
PIN 24	AES4- IN	AES4- OUT	AES4- IN	AES4- IN
PIN 25	AES4+ IN	AES4+ OUT	AES4+ IN	AES4+ IN

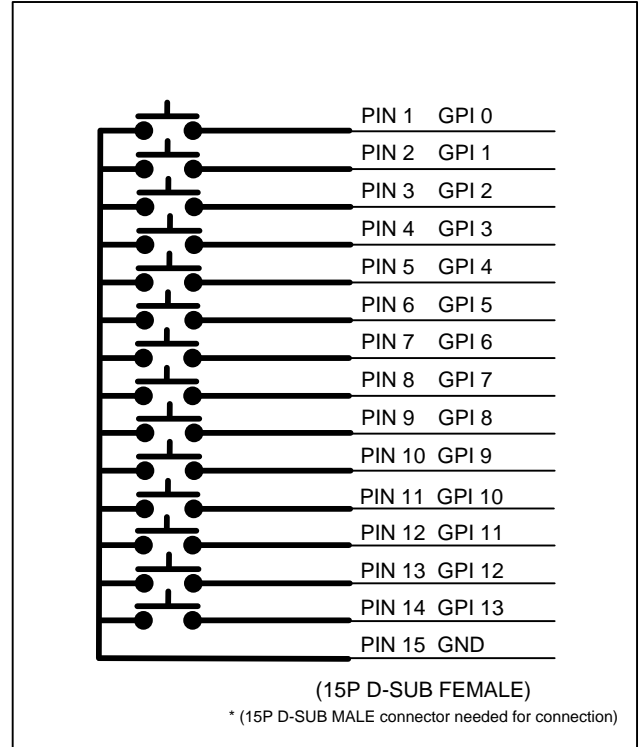
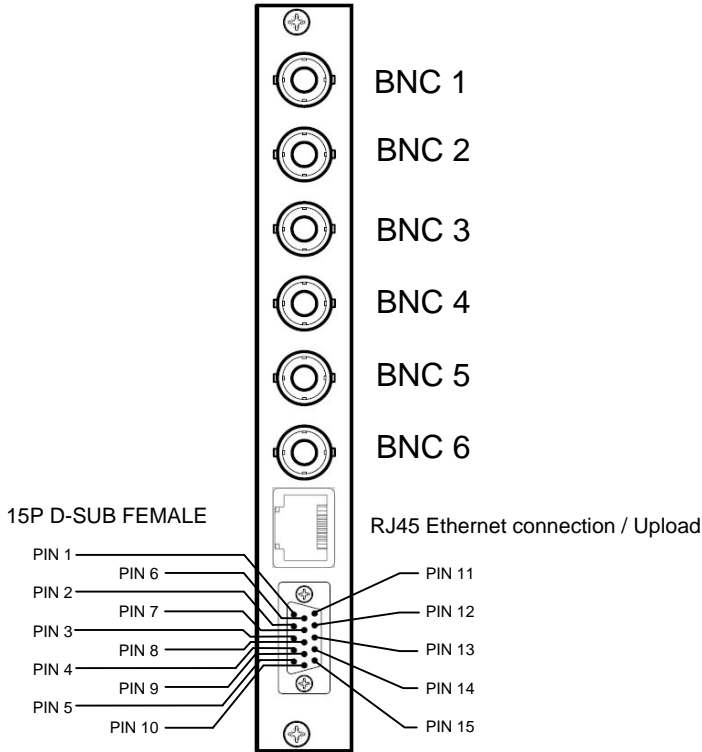
Connection Diagram



The output current of the GPO signals is limited! Please amplify when a low impedance load is used.

	HCL10 HXH20/21 HXH30/31 HXH40/41	HDS10	HDS20/21	SXS/20/21	HSU05/10/11 HSU20/21 HSU30/31	HAS10/30
BNC 1	HD SDI IN	HD/SD SDI IN	HD/SD SDI IN	SD SDI IN	HD/SD SDI IN	HD/SD SDI IN
BNC 2	HD SDI RECLK OUT	HD/SD RECLK OUT	HD/SD RECLK OUT	SD RECLK OUT	HD/SD RECLK OUT	HD/SD RECLK OUT
BNC 3	HD SDI PROC OUT	SD SDI OUT1	HD/SD SDI OUT1	SD SDI OUT1	HD SDI OUT1	HD/SD SDI OUT1
BNC 4	HD SDI PROC OUT	SD SDI OUT2	HD/SD SDI OUT2	SD SDI OUT2	HD SDI OUT2	HD/SD SDI OUT2
BNC 5	NC	NC	NC	NC	NC	NC
BNC 6	NC	NC	NC	NC	NC	NC
BNC 7	NC	NC	NC	NC	NC	NC
15P HD-SUB FEMALE						
PIN 1	GPO1	GPO1	GPO1	GPO1	GPO1	GPO1
PIN 2	GPO3	GPO3	GPO3	GPO3	GPO3	GPO3
PIN 3	GPI0	GPI0	GPI0	GPI0	GPI0	GPI0
PIN 4	GPI2	GPI2	GPI2	GPI2	GPI2	GPI2
PIN 5	GPI1	GPI1	GPI1	GPI1	GPI1	GPI1
PIN 6	GPO0	GPO0	GPO0	GPO0	GPO0	GPO0
PIN 7	GND	GND	GND	GND	GND	GND
PIN 8	GND	GND	GND	GND	GND	GND
PIN 9	GPI3	GPI3	GPI3	GPI3	GPI3	GPI3
PIN 10	GPI6	GPI6	GPI6	GPI6	GPI6	GPI6
PIN 11	GPO2	GPO2	GPO2	GPO2	GPO2	GPO2
PIN 12	GND	GND	GND	GND	GND	GND
PIN 13	GPI4	GPI4	GPI4	GPI4	GPI4	GPI4
PIN 14	GPI7	GPI7	GPI7	GPI7	GPI7	GPI7
PIN 15	GPI5	GPI5	GPI5	GPI5	GPI5	GPI5

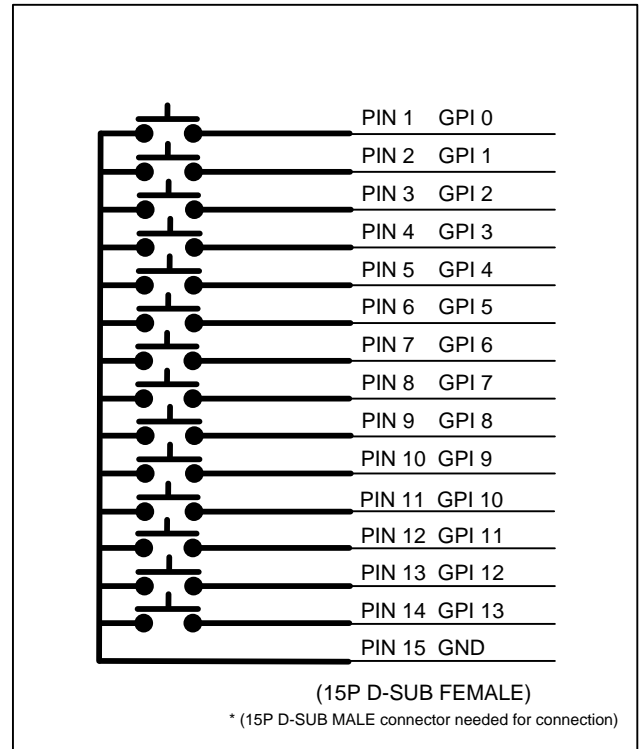
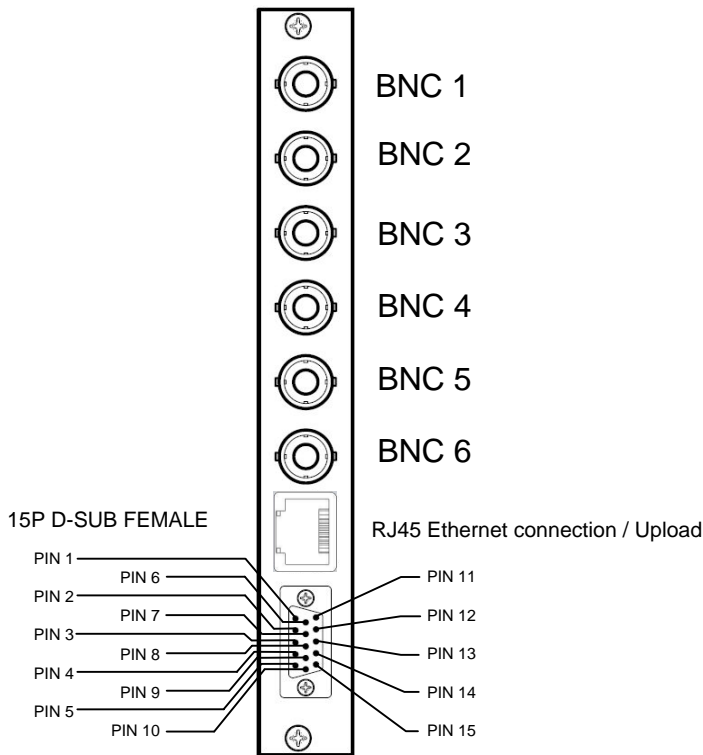
Connection Diagram



	HLI20	HTI10	HSI10	HSI11	HSI12	HSI20	HSS10
BNC 1	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN	HD/SD SDI IN
BNC 2	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT	HD/SD PREVIEW SDI OUT
BNC 3	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1	HD/SD PROC SDI OUT 1
BNC 4	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2	HD/SD PROC SDI OUT 2
BNC 5	NC	NC	NC	NC	NC	NC	NC
BNC 6	NC	NC	CVBS PREVIEW OUT	CVBS PREVIEW OUT	CVBS PREVIEW OUT	CVBS PREVIEW OUT	CVBS PREVIEW OUT
RJ45	Ethernet connection	Ethernet connection	Ethernet connection	Ethernet connection	Ethernet connection	Ethernet connection	Ethernet connection

15P HD-SUB FEMALE							
PIN 1	GPI0	GPI0	GPI0 (CLEAR CAPTION)	GPI0 (CLEAR CAPTION)	GPI0 (CLEAR CAPTION)	GPI0 (RESERVED)	GPI0
PIN 2	GPI1	GPI1	GPI1 (BYPASS INSERTER)	GPI1 (BYPASS INSERTER)	GPI1 (BYPASS INSERTER)	GPI1 (RESERVED)	GPI1
PIN 3	GPI2	GPI2	RESERVED	RESERVED	RESERVED	GPI2	GPI2
PIN 4	GPI3	GPI3	RESERVED	RESERVED	RESERVED	GPI3	GPI3
PIN 5	GPI4	GPI4	RESERVED	RESERVED	RESERVED	GPI4	GPI4
PIN 6	GPI5	GPI5	RESERVED	RESERVED	RESERVED	GPI5	GPI5
PIN 7	GPI6	GPI6	RESERVED	RESERVED	RESERVED	GPI6	GPI6
PIN 8	GPI7	GPI7	RESERVED	RESERVED	RESERVED	GPI7	GPI7
PIN 9	GPI8	GPI8	RESERVED	RESERVED	GPI8 (CUE IN 1)	GPI8	GPI8
PIN 10	GPI9	GPI9	RESERVED	RESERVED	GPI9 (CUE IN 2)	GPI9	GPI9
PIN 11	GPI10	GPI10	RESERVED	RESERVED	GPI10 (CUE IN 3)	GPI10	GPI10
PIN 12	GPI11	GPI11	RESERVED	RESERVED	GPI11 (CUE IN 4)	GPI11	GPI11
PIN 13	GPI12	GPI12	RESERVED	RESERVED	GPI12 (CUE IN 5)	GPI12	GPI12
PIN 14	GPI13	GPI13	RESERVED	RESERVED	GPI13 (CUE IN 6)	GPI13	GPI13
PIN 15	GND	GND	GND	GND	GND	GND	GND

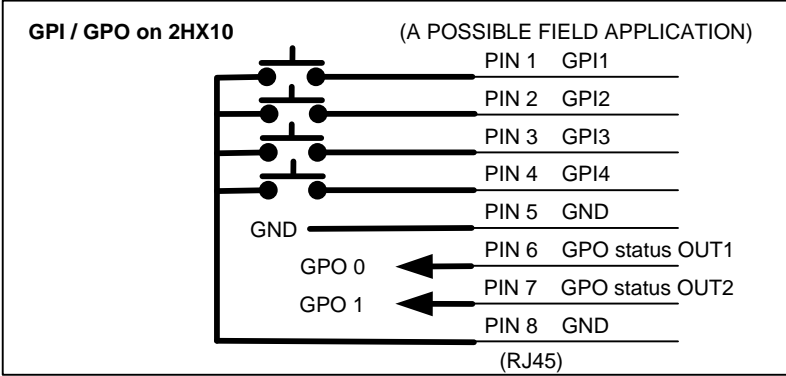
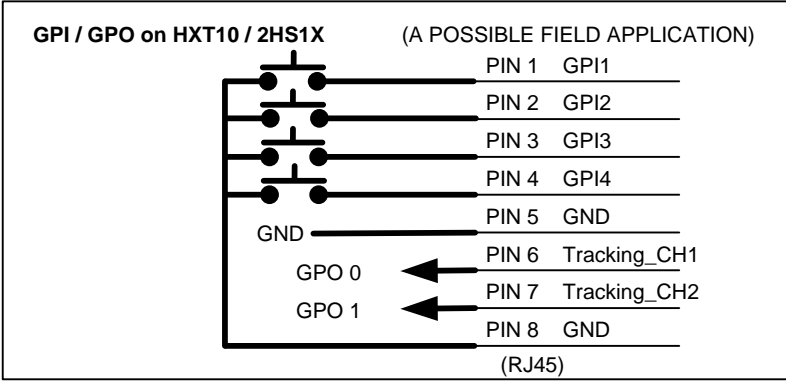
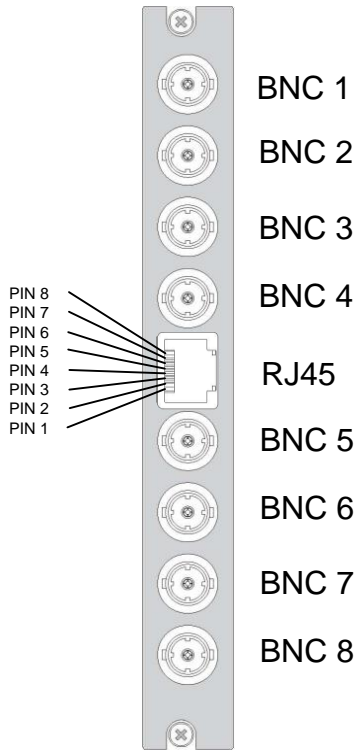
Connection Diagram



	INS30	SLI20	HSI21
BNC 1	SD SDI IN	SD SDI IN	SD SDI IN
BNC 2	SD PREVIEW SDI OUT	SD PREVIEW SDI OUT	SD PREVIEW SDI OUT
BNC 3	SD SDI PROC OUT1	SD PROC SDI OUT 1	SD PROC SDI OUT 1
BNC 4	SD SDI PROC OUT2	SD PROC SDI OUT 2	SD PROC SDI OUT 2
BNC 5	NC	NC	NC
BNC 6	CVBS PREVIEW OUT	CVBS PREVIEW OUT	CVBS PREVIEW OUT
RJ45	Ethernet connection	Ethernet connection	Ethernet connection

15P HD-SUB FEMALE			
PIN 1	GPI0 (CLEAR CAPTION)	GPI0	GPI0 (Reserved)
PIN 2	GPI1 (BYPASS INSERTER)	GPI1	GPI1 (Encoder Bypass)
PIN 3	RESERVED	GPI2	GPI2 (Decoder Bypass)
PIN 4	RESERVED	GPI3	GPI3 (Reserved)
PIN 5	RESERVED	GPI4	GPI4 (Reserved)
PIN 6	RESERVED	GPI5	GPI5 (Reserved)
PIN 7	RESERVED	GPI6	GPI6 (Reserved)
PIN 8	RESERVED	GPI7	GPI7 (Reserved)
PIN 9	RESERVED	GPI8	GPI8 (CUE in 1)
PIN 10	RESERVED	GPI9	GPI9 (CUE in 2)
PIN 11	RESERVED	GPI10	GPI10 (CUE in 3)
PIN 12	RESERVED	GPI11	GPI11 (CUE in 4)
PIN 13	RESERVED	GPI12	GPI12 (CUE in 5)
PIN 14	RESERVED	GPI13	GPI13 (CUE in 6)
PIN 15	GND	GND	GND

Connection Diagram

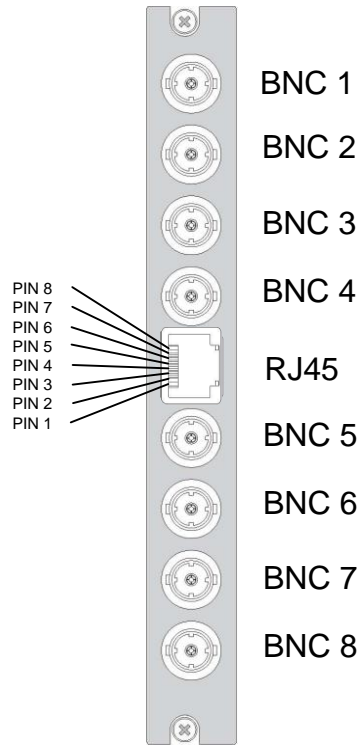


The output current of the GPO signals is limited!
Please amplify when a low impedance load is used.

	HXT10 / 12	2HS10/11	2HX10
BNC 1	SD/HD SDI IN	SD/HD SDI IN A	SD/HD SDI IN1
BNC 2	SD/HD PROC SDI OUT	SD/HD PROC SDI OUT A	SD/HD SDI OUT1
BNC 3	SD PROC SDI OUT	SD PROC SDI OUT A	SD SDI OUTPUT
BNC 4	COMPOSITE OUT	COMPOSITE OUT A	CVBS OUTPUT
BNC 5	SD/HD SDI IN	SD/HD SDI IN B	SD/HD SDI IN2
BNC 6	SD/HD PROC SDI OUT	SD/HD PROC SDI OUT B	SD/HD SDI OUT2
BNC 7	SD PROC SDI OUT	SD PROC SDI OUT B	SD SDI OUTPUT
BNC 8	COMPOSITE OUT	COMPOSITE OUT B	CVBS OUTPUT

RJ 45

PIN 1	GPI 1	GPI 1	GPI 1
PIN 2	GPI 2	GPI 2	GPI 2
PIN 3	GPI 3	GPI 3	GPI 3
PIN 4	GPI 4	GPI 4	GPI 4
PIN 5	GND	GND	GND
PIN 6	TRACKING_CH1	TRACKING_CH1	GPO STATUS OUT1
PIN 7	TRACKING_CH2	TRACKING_CH2	GPO STATUS OUT2
PIN 8	GND	GND	GND

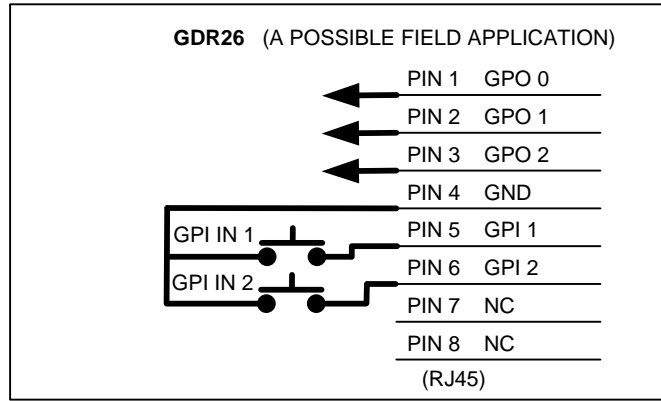
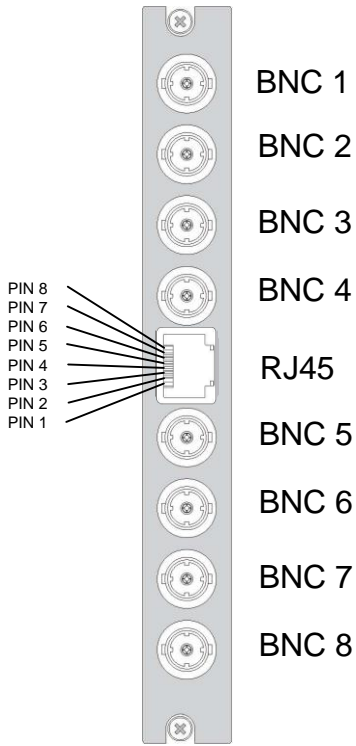


HDR07

BNC 1	SD/HD/ SDI IN
BNC 2	SD/HD/SDI OUT
BNC 3	SD/HD/SDI OUT
BNC 4	SD/HD/SDI OUT
BNC 5	SD/HD/SDI OUT
BNC 6	SD/HD/SDI OUT
BNC 7	SD/HD/SDI OUT
BNC 8	SD/HD/SDI OUT

RJ45	GPI I/O
PIN 1	GND
PIN 2	NOT USED
PIN 3	GND
PIN 4	GND
PIN 5	NOT USED
PIN 6	GND
PIN 7	GND
PIN 8	NOT USED

Connection Diagram



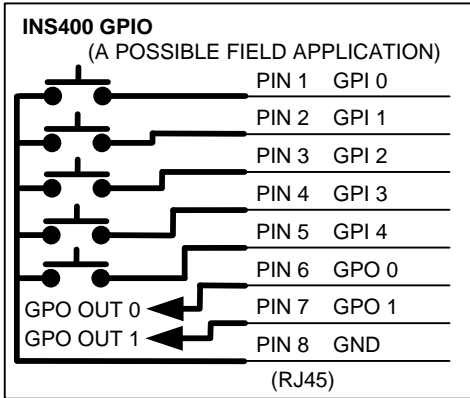
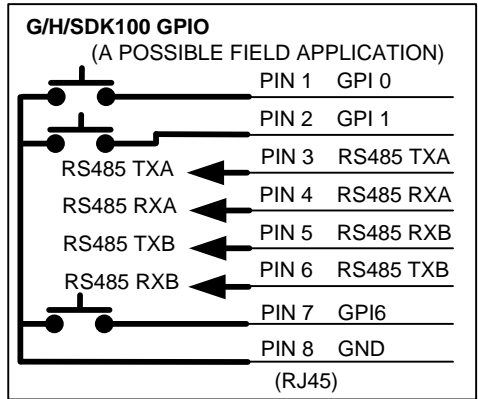
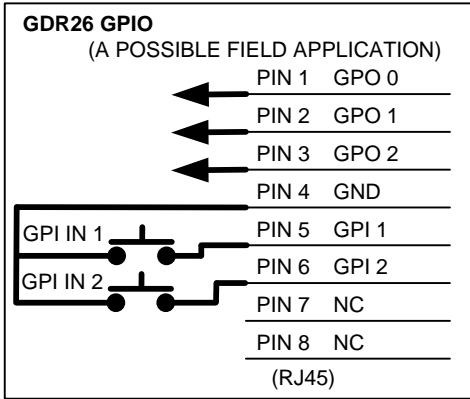
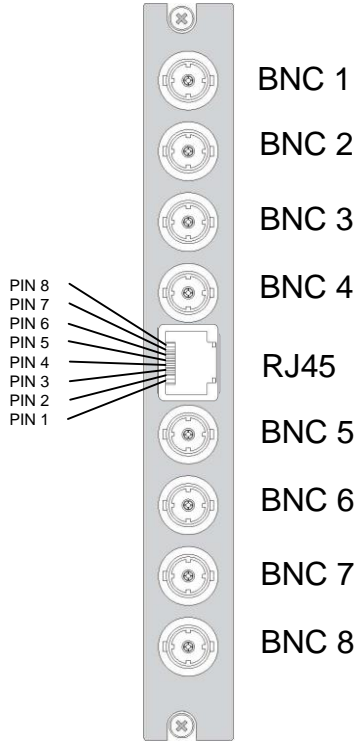
The output current of the GPO signals is limited! Please amplify when a low impedance load is used.

GDR26

BNC 1	SD/HD/3G SDI OUT A3
BNC 2	SD/HD/3G SDI OUT A2
BNC 3	SD/HD/3G SDI OUT A1
BNC 4	SD/HD/3G SDI IN A
BNC 5	SD/HD/3G SDI IN B
BNC 6	SD/HD/3G SDI OUT B1
BNC 7	SD/HD/3G SDI OUT B2
BNC 8	SD/HD/3G SDI OUT B3

RJ45	GPI I/O
PIN 1	GPO 0
PIN 2	GPO 1
PIN 3	GPO 2
PIN 4	GND
PIN 5	GPI 1
PIN 6	GPI 2
PIN 7	NC
PIN 8	NC

Connection Diagram



The output current of the GPO signals is limited! Please amplify when a low impedance load is used.

GDR26

INS400
HNS400

G/HDL100/200

G/H/SDK100/150
G/H/SDK200/300

GSU150/160

GSU100/110

HXT010/100/110

GXG150/160

GXG100/110

GXT010/100/110

2GU100/110

GDS100/110

2XG100/110

HSU100/110

2GS100/110

HXH100/110

2GF100/110

HDS100/110

HSU150/160

HFS100/110

HXH150/160

SFS100/110

2HU100/110

2XH100/110

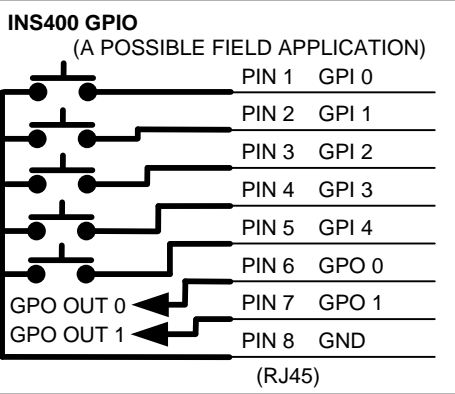
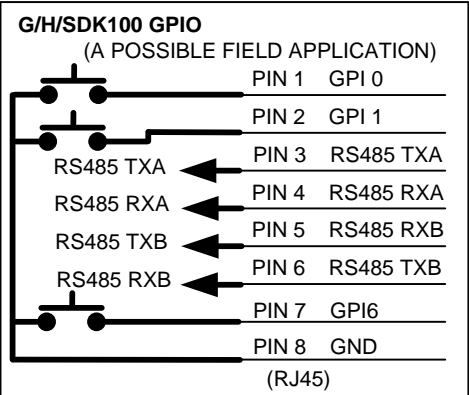
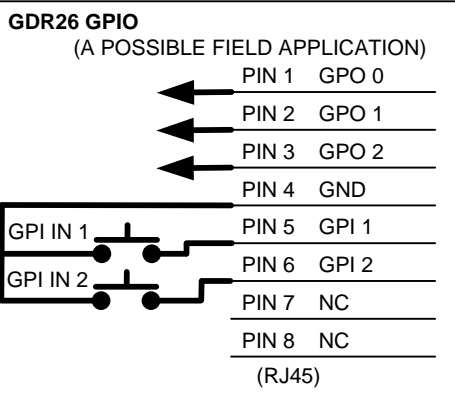
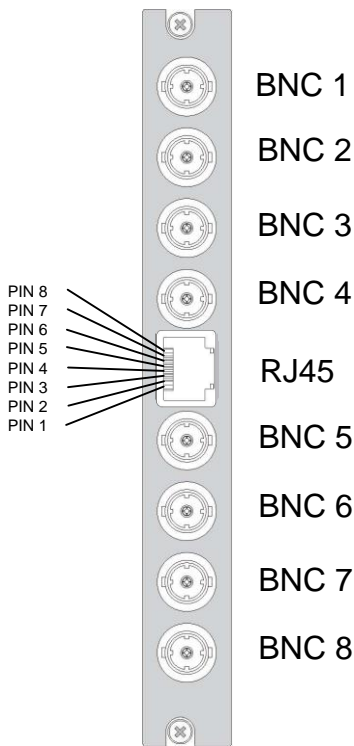
2HS100/110

2HF100/110

2SF100/110

BNC 1	SD/HD/3G SDI OUT A3	SD SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	HD/SD SDI IN 1
BNC 2	SD/HD/3G SDI OUT A2	SD SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	HD/SD SDI IN 2
BNC 3	SD/HD/3G SDI OUT A1	SD SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT 1	SD/HD/3G SDI OUT A1	SD/HD/3G SDI OUT A1	SD SDI OUT 1
BNC 4	SD/HD/3G SDI IN A	SD SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT 2	SD/HD/3G SDI OUT A2	SD/HD/3G SDI OUT A2	SD SDI OUT 2
BNC 5	SD/HD/3G SDI IN B	SD SDI OUT 3	SD/HD/3G SDI OUT 3	SD/HD/3G SDI OUT 3	SD/HD/3G SDI OUT B1	SD/HD/3G SDI OUT A3	SD SDI OUT 3
BNC 6	SD/HD/3G SDI OUT B1	SD SDI OUT 4	SD/HD/3G SDI OUT 4	SD/HD/3G SDI OUT 4	SD/HD/3G SDI OUT B2	SD/HD/3G SDI OUT A4	SD SDI OUT 4
BNC 7	SD/HD/3G SDI OUT B2	NC	NC	SD/HD/3G SDI IN 3	NC	NC	NC
BNC 8	SD/HD/3G SDI OUT B3	CVBS IN	NC	SD/HD/3G SDI IN 4	CVBS IN	CVBS IN	NC
RJ45					GPI I/O	GPI I/O	GPI I/O
PIN 1	GPO 0	GPI0	NC	GPI0	GPI 0	GPI 0	GPI 0
PIN 2	GPO 1	GPI1	NC	GPI1	GPI 1	GPI 1	GPI 1
PIN 3	GPO 2	GPI2	NC	RS485 TXA	GPI 2	GPI 2	GPI 2
PIN 4	GND	GPI3	NC	RS485 RXA	GPI 3	GPI 3	GPI 3
PIN 5	GPI 1	GPI4	NC	RS485 RXB	GPI 4	GPI 4	GPI 4
PIN 6	GPI 2	GPO0	NC	RS485 TXB	GPO 0	GPO 0	GPI 5
PIN 7	NC	GPO1	NC	GPI6	GPO 1	GPO 1	GPI 6
PIN 8	NC	GND	NC	GND	GND	GND	GND

Connection Diagram

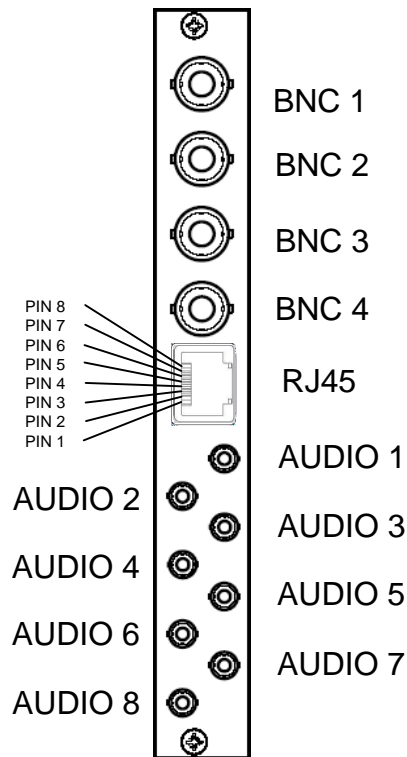


The output current of the GPO signals is limited! Please amplify when a low impedance load is used.

	GHDS010 G/H/SFS010 G/H/SL010 G/G/HX010	GHSD100	GHX010	GHX100/110
BNC1	SD/HD/3GSDI INA	SD/HD/3GSDI IN1	SD/HD/3GSDI IN1	SD/HD/3GSDI IN1
BNC2	NC	SD/HD/3GSDI IN2	SD/HD/3GSDI IN2	SD/HD/3GSDI IN2
BNC3	SD/HD/3GSDI OUTA1	SD/HD/3GSDI OUT1	SD/HD/3GSDI MAIN OUT1	SD/HD/3GSDI MAIN OUT1
BNC4	SD/HD/3GSDI OUTA2	SD/HD/3GSDI OUT2	SD/HD/3GSDI MAIN OUT2	SD/HD/3GSDI MAIN OUT2
BNC5	SD/HD/3GSDI OUTA3	SD/HD/3GSDI OUT3	SD/HD/3GSDI BACKUP OUT1	SD/HD/3GSDI BACKUP OUT1
BNC6	SD/HD/3GSDI OUTA4	SD/HD/3GSDI OUT4	SD/HD/3GSDI BACKUP OUT2	SD/HD/3GSDI BACKUP OUT2
BNC7	NC	SD/HD/3GSDI IN3	SD/HD/3GSDI NC	SD/HD/3GSDI IN3
BNC8	NC	SD/HD/3GSDI IN4	SD/HD/3GSDI NC	SD/HD/3GSDI IN4
RJ45	GPI I/O		GPI I/O	GPI I/O
PIN1	GPI 0	GPI 0	GPI 0	GPI 0
PIN2	GPI 1	GPI 1	GPI 1	GPI 1
PIN3	GPI 2	GPI 2	GPI 2	GPI 2
PIN4	GPI 3	GPI 3	GPI 3	GPI 3
PIN5	GPI 4	GPI 4	GPI 4	GPI 4
PIN6	GPO 0	GPI 5	GPI 5	GPI 5
PIN7	GPO 1	GPI 6	GPI 6	GPI 6
PIN8	GND	GND	GND	GND

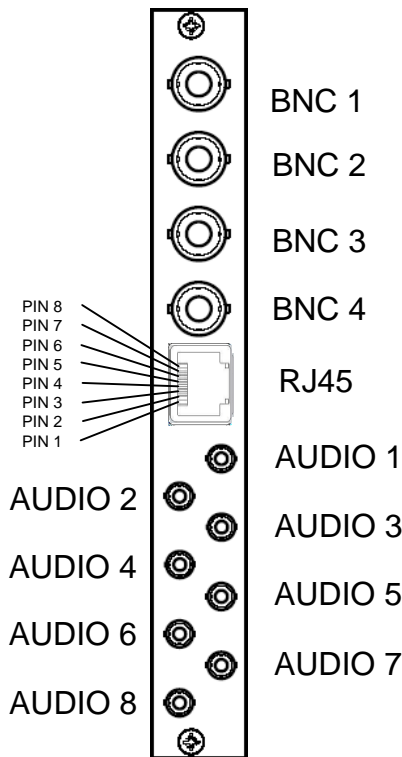
Application Example GPIO G/HX010/100/110:

- PIN 1 GPI 0 Video preset switch 0
- PIN 2 GPI 1 Video preset switch 1
- PIN 3 GPO 2 Probe-A error
- PIN 4 GPO 3 Probe-B error
- PIN 5 GPO 4 Active input for output-A
- PIN 6 GPO 5 Active input for output-B
- PIN 7 GPI 6 Audio preset switch 0
- PIN 8 GND



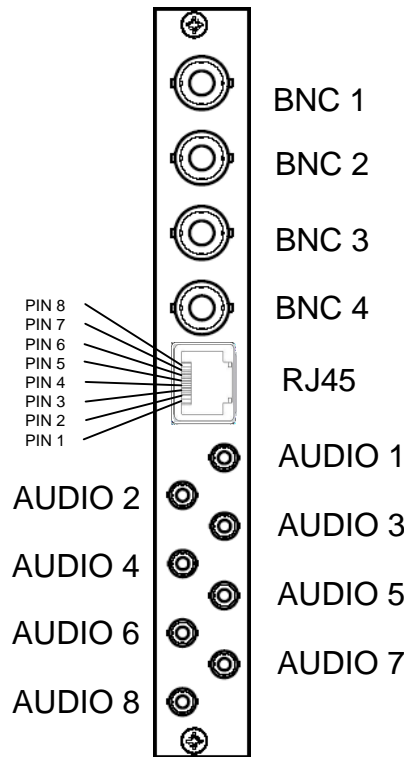
	G/HEB400 G/HEB500	G/HEB440 G/HEB550	G/HDB400 G/HDB500	G/HDB440 G/HDB550	G/HRB550 G/HRF550	G/HRB590 G/HRF590	G/HEB800 G/HEB900
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
RJ 45							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)
ANALOG AUDIO INPUTS							
AUDIO 1	A1pos IN / GND	A1pos IN / GND	A1pos OUT / GND	A1pos OUT / GND	A1pos IN / GND	A1pos IN / GND	D1 IN
AUDIO 2	A2pos IN / GND	A2pos IN / GND	A2pos OUT / GND	A2pos OUT / GND	A2pos IN / GND	A2pos IN / GND	D2 IN
AUDIO 3	A3pos IN / GND	A3pos IN / GND	A3pos OUT / GND	A3pos OUT / GND	A3pos IN / GND	A3pos IN / GND	D3 IN
AUDIO 4	A4pos IN / GND	A4pos IN / GND	A4pos OUT / GND	A4pos OUT / GND	A4pos IN / GND	A4pos IN / GND	D4 IN
AUDIO 5		A5pos IN / GND		A5pos OUT / GND	A1pos OUT / GND	D1 OUT	
AUDIO 6		A6pos IN / GND		A6pos OUT / GND	A2pos OUT / GND	D2 OUT	
AUDIO 7		A7pos IN / GND		A7pos OUT / GND	A3pos OUT / GND	D3 OUT	
AUDIO 8		A8pos IN / GND		A8pos OUT / GND	A4pos OUT / GND	D4 OUT	
	*See note below	*See note below	*See note below	*See note below	*See note below	*See note below	*See note below

NOTE: Analog unbalanced inputs/outputs gives 6dB signal level reduction, for correct usage of analog audio signals use BPH18D instead



	G/HEB840 G/HEB950	G/HEB880 G/HEB990	G/HDB800 G/HDB900	G/HDB840 G/HDB950	G/HDB880 G/HDB990	G/HRB950 G/HRF950	G/HRB990 G/HRF990
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
RJ 45							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)
ANALOG AUDIO INPUTS							
AUDIO 1	D1 IN	D1 IN	D1 OUT	D1 OUT	D1 OUT	D1 IN	D1 IN
AUDIO 2	D2 IN	D2 IN	D2 OUT	D2 OUT	D2 OUT	D2 IN	D2 IN
AUDIO 3	D3 IN	D3 IN	D3 OUT	D3 OUT	D3 OUT	D3 IN	D3 IN
AUDIO 4	D4 IN	D4 IN	D4 OUT	D4 OUT	D4 OUT	D4 IN	D4 IN
AUDIO 5	A1pos IN / GND	D5 IN		A1pos OUT / GND	D5 OUT	A1pos OUT / GND	D1 OUT
AUDIO 6	A2pos IN / GND	D6 IN		A2pos OUT / GND	D6 OUT	A2pos OUT / GND	D2 OUT
AUDIO 7	A3pos IN / GND	D7 IN		A3pos OUT / GND	D7 OUT	A3pos OUT / GND	D3 OUT
AUDIO 8	A4pos IN / GND	D8 IN		A4pos OUT / GND	D8 OUT	A4pos OUT / GND	D4 OUT
	*See note below	*See note below	*See note below	*See note below	*See note below	*See note below	*See note below

NOTE: Analog unbalanced inputs/outputs gives 6dB signal level reduction, for correct usage of analog audio signals use BPH18D instead



	G/HAF500 G/HRF500	G/HAF900 G/HRF900	G/HRF050	G/HRF090
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
RJ 45				
PIN 1	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)
Coaxial				
AUDIO 1	A1pos IN / GND	D1 IN		
AUDIO 2	A2pos IN / GND	D2 IN		
AUDIO 3	A3pos IN / GND	D3 IN		
AUDIO 4	A4pos IN / GND	D4 IN		
AUDIO 5			A1pos OUT / GND	D1 OUT
AUDIO 6			A2pos OUT / GND	D2 OUT
AUDIO 7			A3pos OUT / GND	D3 OUT
AUDIO 8			A4pos OUT / GND	D4 OUT

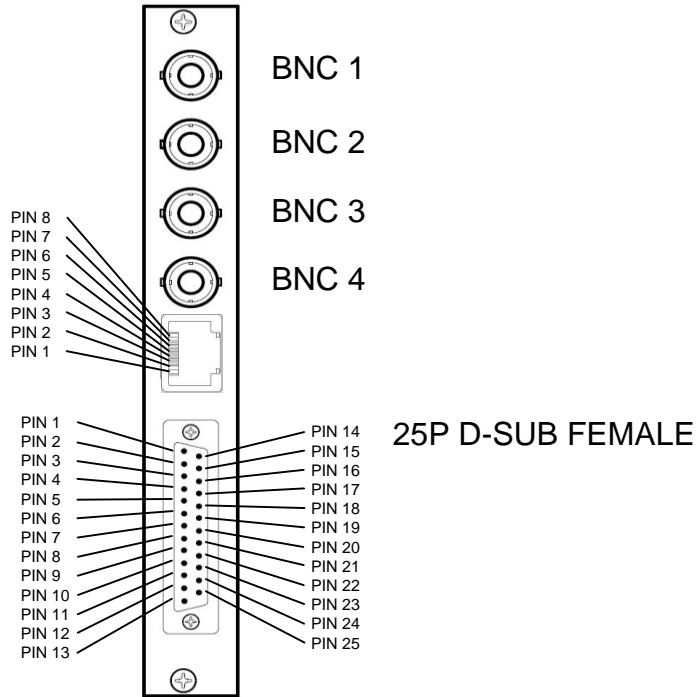
*See note below

*See note below

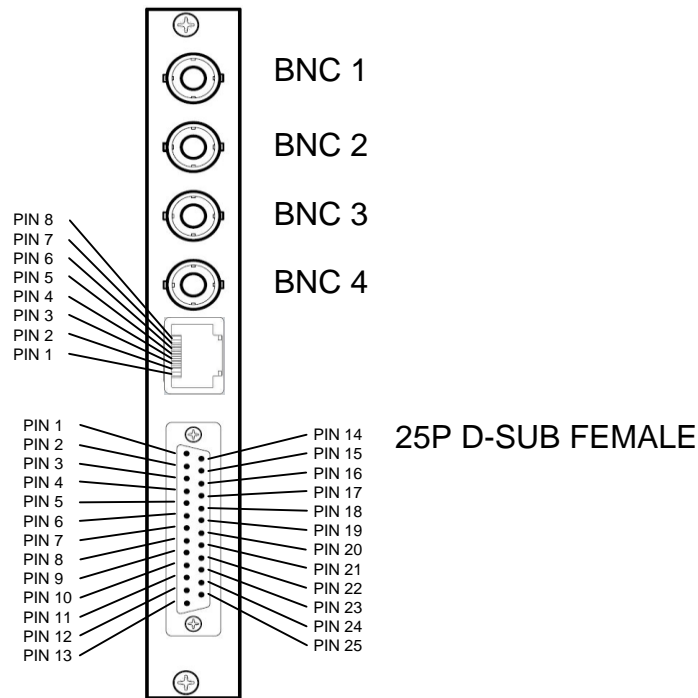
*See note below

*See note below

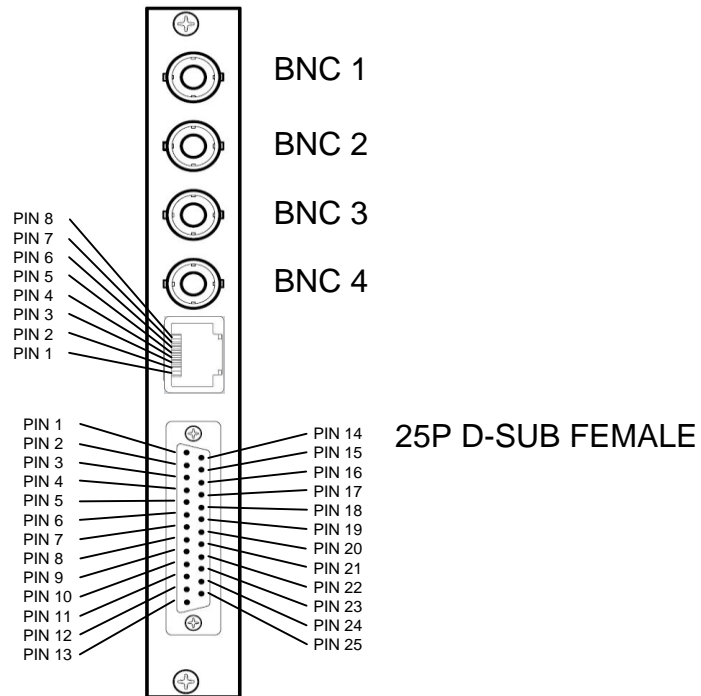
NOTE: Analog unbalanced inputs/outputs gives 6dB signal level reduction, for correct usage of analog audio signals use BPH18D instead



	G/HEB400 G/HEB500	G/HEB440 G/HEB550	G/HDB400 G/HDB500	G/HDB440 G/HDB550	G/HRB550 G/HRF550	G/HRB590 G/HRF590	G/HEB800 G/HEB900
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
25P D-SUB FEMALE							
PIN 1	A1neg IN	A1neg IN	A1neg OUT	A1neg OUT	A1neg IN	A1neg IN	D1neg IN
PIN 2	A1pos IN	A1pos IN	A1pos OUT	A1pos OUT	A1pos IN	A1pos IN	D1pos IN
PIN 3	GND	GND	GND	GND	GND	GND	GND
PIN 4	A3neg IN	A3neg IN	A3neg OUT	A3neg OUT	A3neg IN	A3neg IN	D3neg IN
PIN 5	A3pos IN	A3pos IN	A3pos OUT	A3pos OUT	A3pos IN	A3pos IN	D3pos IN
PIN 6	GND	GND	GND	GND	GND	GND	GND
PIN 7		A5neg IN		A5neg OUT	A5neg OUT	D5neg OUT	
PIN 8		A5pos IN		A5pos OUT	A5pos OUT	D5pos OUT	
PIN 9	GND	GND	GND	GND	GND	GND	GND
PIN 10		A7neg IN		A7neg OUT	A7neg OUT	D7neg OUT	
PIN 11		A7pos IN		A7pos OUT	A7pos OUT	D7pos OUT	
PIN 12	GND	GND	GND	GND	GND	GND	GND
PIN 13							
PIN 14	GND	GND	GND	GND	GND	GND	GND
PIN 15	A2neg IN	A2neg IN	A2neg OUT	A2neg OUT	A2neg IN	A2neg IN	D2neg IN
PIN 16	A2pos IN	A2pos IN	A2pos OUT	A2pos OUT	A2pos IN	A2pos IN	D2pos IN
PIN 17	GND	GND	GND	GND	GND	GND	GND
PIN 18	A4neg IN	A4neg IN	A4neg OUT	A4neg OUT	A4neg IN	A4neg IN	D4neg IN
PIN 19	A4pos IN	A4pos IN	A4pos OUT	A4pos OUT	A4pos IN	A4pos IN	D4pos IN
PIN 20	GND	GND	GND	GND	GND	GND	GND
PIN 21		A6neg IN		A6neg OUT	A6neg OUT	D6neg OUT	
PIN 22		A6pos IN		A6pos OUT	A6pos OUT	D6pos OUT	
PIN 23	GND	GND	GND	GND	GND	GND	GND
PIN 24		A8neg IN		A8neg OUT	A8neg OUT	D8neg OUT	
PIN 25		A8pos IN		A8pos OUT	A8pos OUT	D8pos OUT	
RJ 45							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)

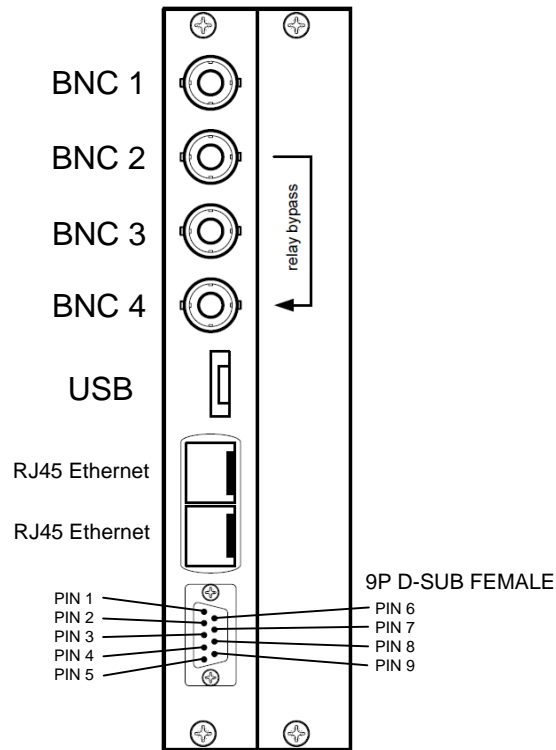


	G/HEB840 G/HEB950	G/HEB880 G/HEB990	G/HDB800 G/HDB900	G/HDB840 G/HDB950	G/HDB880 G/HDB990	G/HRB950 G/HRF950	G/HRB990 G/HRF990
BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
25P D-SUB FEMALE							
PIN 1	D1neg IN	D1neg IN	D1neg OUT	D1neg OUT	D1neg OUT	D1neg IN	D1neg IN
PIN 2	D1pos IN	D1pos IN	D1pos OUT	D1pos OUT	D1pos OUT	D1pos IN	D1pos IN
PIN 3	GND	GND	GND	GND	GND	GND	GND
PIN 4	D3neg IN	D3neg IN	D3neg OUT	D3neg OUT	D3neg OUT	D3neg IN	D3neg IN
PIN 5	D3pos IN	D3pos IN	D3pos OUT	D3pos OUT	D3pos OUT	D3pos IN	D3pos IN
PIN 6	GND	GND	GND	GND	GND	GND	GND
PIN 7	A1neg IN	D5neg IN		A1neg OUT	D5neg OUT	A5neg OUT	D5neg OUT
PIN 8	A1pos IN	D5pos IN		A1pos OUT	D5pos OUT	A5pos OUT	D5pos OUT
PIN 9	GND	GND	GND	GND	GND	GND	GND
PIN 10	A3neg IN	D7neg IN		A3neg OUT	D7neg OUT	A7neg OUT	D7neg OUT
PIN 11	A3pos IN	D7pos IN		A3pos OUT	D7pos OUT	A7pos OUT	D7pos OUT
PIN 12	GND	GND	GND	GND	GND	GND	GND
PIN 13							
PIN 14	GND	GND	GND	GND	GND	GND	GND
PIN 15	D2neg IN	D2neg IN	D2neg OUT	D2neg OUT	D2neg OUT	D2neg IN	D2neg IN
PIN 16	D2pos IN	D2pos IN	D2pos OUT	D2pos OUT	D2pos OUT	D2pos IN	D2pos IN
PIN 17	GND	GND	GND	GND	GND	GND	GND
PIN 18	D4neg IN	D4neg IN	D4neg OUT	D4neg OUT	D4neg OUT	D4neg IN	D4neg IN
PIN 19	D4pos IN	D4pos IN	D4pos OUT	D4pos OUT	D4pos OUT	D4pos IN	D4pos IN
PIN 20	GND	GND	GND	GND	GND	GND	GND
PIN 21	A2neg IN	D6neg IN		A2neg OUT	D6neg OUT	A6neg OUT	D6neg OUT
PIN 22	A2pos IN	D6pos IN		A2pos OUT	D6pos OUT	A6pos OUT	D6pos OUT
PIN 23	GND	GND	GND	GND	GND	GND	GND
PIN 24	A4neg IN	D8neg IN		A4neg OUT	D8neg OUT	A8neg OUT	D8neg OUT
PIN 25	A4pos IN	D8pos IN		A4pos OUT	D8pos OUT	A8pos OUT	D8pos OUT
RJ 45							
PIN 1	GND	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)



G/HAF500 G/HRF500	G/HAF900 G/HRF900	G/HRB100 G/HEP100/130 G/HPD100/130 G/HED100/130 G/HJA420/440 G/HJA840/880	GAW010/100/110/300 HAW010/100/110/300 SAW010/100/110/300	G/HRF050	G/HRF090
----------------------	----------------------	--	--	----------	----------

BNC 1	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A	SD/HD/3G SDI IN A
BNC 2	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B	SD/HD/3G SDI IN B
BNC 3	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A	SD/HD/3G SDI OUT A
BNC 4	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B	SD/HD/3G SDI OUT B
25P D-SUB FEMALE						
PIN 1	A1neg IN	D1neg IN				
PIN 2	A1pos IN	D1pos IN				
PIN 3	GND	GND	GND	GND	GND	GND
PIN 4	A3neg IN	D3neg IN				
PIN 5	A3pos IN	D3pos IN				
PIN 6	GND	GND	GND	GND	GND	GND
PIN 7					A5neg OUT	D5neg OUT
PIN 8					A5pos OUT	D5pos OUT
PIN 9	GND	GND	GND	GND	GND	GND
PIN 10					A7neg OUT	D7neg OUT
PIN 11					A7pos OUT	D7pos OUT
PIN 12	GND	GND	GND	GND	GND	GND
PIN 13						
PIN 14	GND	GND	GND	GND	GND	GND
PIN 15	A2neg IN	D2neg IN				
PIN 16	A2pos IN	D2pos IN				
PIN 17	GND	GND	GND	GND	GND	GND
PIN 18	A4neg IN	D4neg IN				
PIN 19	A4pos IN	D4pos IN				
PIN 20	GND	GND	GND	GND	GND	GND
PIN 21					A6neg OUT	D6neg OUT
PIN 22					A6pos OUT	D6pos OUT
PIN 23	GND	GND	GND	GND	GND	GND
PIN 24					A8neg OUT	D8neg OUT
PIN 25					A8pos OUT	D8pos OUT
RJ 45						
PIN 1	GND	GND	GND	GND	GND	GND
PIN 2	GPI/O 1	GPI/O 1	GPI/O 1	GPO 1	GPI/O 1	GPI/O 1
PIN 3	GPI/O 2	GPI/O 2	GPI/O 2	GPO 2	GPI/O 2	GPI/O 2
PIN 4	GPI/O 3	GPI/O 3	GPI/O 3	NC	GPI/O 3	GPI/O 3
PIN 5	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)	NC	GPI/O 4 / TXA(+)	GPI/O 4 / TXA(+)
PIN 6	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)	NC	GPI/O 5 / TXB(-)	GPI/O 5 / TXB(-)
PIN 7	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)	LTC IN (+)	GPI/O 6 / RXA(+)	GPI/O 6 / RXA(+)
PIN 8	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)	LTC IN (-)	GPI/O 7 / RXB(-)	GPI/O 7 / RXB(-)



HLD100
SLD100

BNC 1	SD INPUT 1
BNC 2	SD INPUT 2
BNC 3	SD OUTPUT 1
BNC 4	SD OUTPUT 2 (RELAY BYPASS)

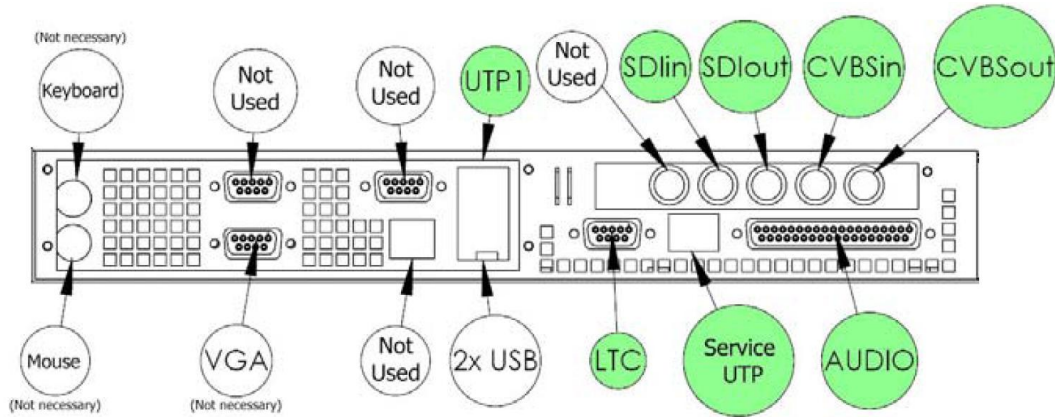
15P D-SUB FEMALE

PIN 1	RX2B(-)
PIN 2	TX2A(+)
PIN 3	GPI 1
PIN 4	GPI 3
PIN 5	GPI 2
PIN 6	RX2A(+)
PIN 7	GND
PIN 8	LTC_n
PIN 9	GPI 4
PIN 10	GPI 7
PIN 11	TX2B(-)
PIN 12	LTC_p
PIN 13	GPI 5
PIN 14	GPI 8
PIN 15	GPI 6

GDR216

RJ45

PIN 1	GPIO 1
PIN 2	GPIO 2
PIN 3	GPIO 3
PIN 4	GND
PIN 5	GPIO 4
PIN 6	GPIO 5
PIN 7	GPIO 6
PIN 8	GPIO 7



Audio		LTC	
25P D-SUB FEMALE		9P D-SUB FEMALE	
PIN 1	AES_1_IN+	PIN 1	GND
PIN 2	GND	PIN 2	NC
PIN 3	AES_2_IN-	PIN 3	NC
PIN 4	AUDIO_1_IN+	PIN 4	NC
PIN 5	GND	PIN 5	NC
PIN 6	AUDIO_2_IN-	PIN 6	NC
PIN 7	AUDIO_3_IN+	PIN 7	LTC_IN+
PIN 8	GND	PIN 8	LTC_IN-
PIN 9	AUDIO_4_IN-	PIN 9	GND
PIN 10	Not connected		
PIN 11	AES_1_OUT-		
PIN 12	AES_2_OUT+		
PIN 13	GND		
PIN 14	AUDIO_1_OUT-		
PIN 15	AUDIO_2_OUT+		
PIN 16	GND		
PIN 17	AUDIO_3_OUT-		
PIN 18	AUDIO_4_OUT+		
PIN 19	GND		
PIN 20	AES_1_IN-		
PIN 21	AES_2_IN+		
PIN 22	GND		
PIN 23	AUDIO_1_IN-		
PIN 24	AUDIO_2_IN+		
PIN 25	GND		
PIN 26	AUDIO_3_IN-		
PIN 27	AUDIO_4_IN+		
PIN 28	GND		
PIN 29	AES_1_OUT+		
PIN 30	GND		
PIN 31	AES_2_OUT-		
PIN 32	AUDIO_1_OUT+		
PIN 33	GND		
PIN 34	AUDIO_2_OUT-		
PIN 35	AUDIO_3_OUT+		
PIN 36	GND		
PIN 37	AUDIO_4_OUT-		