

**Appendix 2**  
**Interface Inventory for Encoder/Multiplexer Group, 6/24/98**

From #	To #	From Name	To Name	Interface Name	Comments
3	4	Satellite Demod	Demux	DVB-ASI	Transport Stream
3	4	Satellite Demod	Demux	305M	
3	4	Satellite Demod	Demux	DS3	
3	4	Satellite Demod	Demux	G.703	
3	4	Satellite Demod	Demux	310M	TSL/ICR Link
3	44	Satellite Demod	Mud	G.703	
3	44	Satellite Demod	Mud	DS3	
3	44	Satellite Demod	Mud	310M	TSL/ICR Link
3	44	Satellite Demod	Mud	305M	MPEG TS, ES; or DV, etc.
3	44	Satellite Demod	Mud	DVB-ASI	Transport stream
4	5	Demux	Video Decoder	DVB-ASI	Transport Stream
4	5	Demux	Video Decoder	305M	
4	5	Demux	Video Decoder	Internal	
4	6	Demux	Audio Decoder	AES3	
4	24	Demux	SD Router	DVB-ASI 305M, TS, ES, DV	Transport stream
4	24	Demux	SD Router	305M	TS, ES, DV
4	43	Demux	Splicer	DVB-ASI	Transport stream
4	43	Demux	Splicer	305M	
4	90	Demux	ATSC Multiplexer	DVB-ASI	Transport stream
4	90	Demux	ATSC Multiplexer	305M	
4	90	Demux	ATSC Multiplexer	310M	PBS Scenario
5	24	Video Decoder	SD Router	259M w 125M	Component,
5	24	Video Decoder	SD Router	259M w 244M	Composite
5	24	Video Decoder	SD Router	170M	Analog NTSC
6	24	Audio Decoder	SD Router	AES3	XLR, BNC (embedded?)
6	24	Audio Decoder	SD Router	Analog	XLR
7	24	HDTV downconverter	SD Router	170M	Analog
7	24	HDTV downconverter	SD Router	259M w 244M	Composite
7	24	HDTV downconverter	SD Router	259M w 125M	Component
7	24	HDTV downconverter	SD Router	305M	
8	24	Format converter	SD Router	170M	Analog
8	24	Format converter	SD Router	259M w 244M	Composite
8	24	Format converter	SD Router	259M w 125M	Component
8	24	Format converter	SD Router	305M	
9	24	Video Decoder	SD Router	259M w 125M	Component
9	24	Video Decoder	SD Router	259M w 244M	Composite
9	24	Video Decoder	SD Router	170M	Analog NTSC
10	24	Audio Decoder	SD Router	AES3	XLR, BNC (embedded?)
10	24	Audio Decoder	SD Router	AES3	XLR
11	24	Video Decoder	SD Router	259M w 125M	Component

From #	To #	From Name	To Name	Interface Name	Comments
11	24	Video Decoder	SD Router	259M w 244M	Composite
11	24	Video Decoder	SD Router	170M	Analog NTSC
12	24	Audio Decoder	SD Router	AES3	XLR, BNC (embedded?)
12	24	Audio Decoder	SD Router	Analog	XLR
13	24	Video Decoder	SD Router	259M w 125M	Component
13	24	Video Decoder	SD Router	259M w 244M	Composite
13	24	Video Decoder	SD Router	170M	Analog NTSC
14	24	Audio Decoder	SD Router	AES3	XLR, BNC (embedded?)
14	24	Audio Decoder	SD Router	Analog	XLR
16	17	Copper Demod	Demux	DVB-ASI	Transport Stream
16	17	Copper Demod	Demux	305M	
16	17	Copper Demod	Demux	DS3	
16	17	Copper Demod	Demux	G.703	
16	17	Copper Demod	Demux	Internal	
17	24	Demux	SD Router	DVB-ASI	MPEG TS
17	24	Demux	SD Router	305M	TS, ES, DV
17	40	Demux	Splicer	DVB-ASI	Transport stream
17	40	Demux	Splicer	305M	
17	90	Demux	ATSC Multiplexer	DVB-ASI	Transport stream
17	90	Demux	ATSC Multiplexer	305M	
19	20	Laser Demod	Demux	DVB-ASI	Transport Stream
19	20	Laser Demod	Demux	305M	
19	20	Laser Demod	Demux	DS3	
19	20	Laser Demod	Demux	G.703	
19	20	Laser Demod	Demux	Internal	
20	24	Demux	SD Router	DVB-ASI 305M, TS, ES, DV	Transport stream
20	24	Demux	SD Router	305M	TS, ES, DV
20	41	Demux	Splicer	DVB-ASI	Transport stream
20	41	Demux	Splicer	305M	
20	90	Demux	ATSC Multiplexer	DVB-ASI	Transport stream
20	90	Demux	ATSC Multiplexer	305M	
22	23	Microwave Receiver	Demux	DVB-ASI	Transport Stream
22	23	Microwave Receiver	Demux	305M	
22	23	Microwave Receiver	Demux	DS3	
22	23	Microwave Receiver	Demux	G.703	
22	23	Microwave Receiver	Demux	Internal	
23	24	Demux	SD Router	DVB-ASI 305M, TS, ES, DV	Transport stream
23	24	Demux	SD Router	305M	TS, ES, DV
23	42	Demux	Splicer	DVB-ASI	Transport stream
23	42	Demux	Splicer	305M	
23	90	Demux	ATSC Multiplexer	DVB-ASI	Transport stream
23	90	Demux	ATSC Multiplexer	305M	
24	25	SD Router	Splicer	DVB-ASI	TS
24	25	SD Router	Splicer	305M	TS, ES, DV, AES3
24	31	SD Router	Data Extractor	170M	see worksheets

From #	To #	From Name	To Name	Interface Name	Comments
24	31	SD Router	Data Extractor	259M	
24	33	SD Router	Data Inserter	170M	analog composite
24	33	SD Router	Data Inserter	259M w 244M, analog audio	digital composite
24	33	SD Router	Data Inserter	259M w 244M, AES3 audio	"
24	33	SD Router	Data Inserter	259M w 244M, 272M embedded audio	"
24	34	SD Router	Video Encoder	170M	analog composite
24	34	SD Router	Video Encoder	259M, 125M w AES3 audio	digital component
24	34	SD Router	Video Encoder	259M, 125M w 272M embedded audio	
24	34	SD Router	Video Encoder	305M	coded
24	35	SD Router	AC-3 Encoder	AES3 pcm	1-3 pairs
24	35	SD Router	AC-3 Encoder	AES3 data	
24	35	SD Router	AC-3 Encoder	analog	2 ch max
24	37	SD Router	Encoder	170M	analog composite
24	37	SD Router	Encoder	259M w 125M, analog audio	digital component
24	37	SD Router	Encoder	259M w 125M, AES3 audio	"
24	37	SD Router	Encoder	259M w 125M, 272M embedded audio	"
24	37	SD Router	Encoder	259M w 244M, analog audio	digital composite
24	37	SD Router	Encoder	259M w 244M, AES3 audio	"
24	37	SD Router	Encoder	259M w 244M, 272M embedded audio	"
24	37	SD Router	Encoder	305M	coded digital
24	38	SD Router	Splicer	305M	
24	38	SD Router	Splicer	DVB-ASI	
24	51	SD Router	HD Upconverter	259M w 244M	digital component
24	51	SD Router	HD Upconverter	259M w 125M	digital composite
24	51	SD Router	HD Upconverter	170M	analog
24	90	SD Router	ATSC Multiplexer	305M	
24	90	SD Router	ATSC Multiplexer	DVB-ASI	
24	92	SD Router	STL Multiplexer	305M	
24	93	SD Router	STL	NA	inserter [33] added in line
24	98	SD Router	NTSC Transmitter	170M	analog video
24	102	SD Router	Format Converter	259M w 244M	digital component
24	102	SD Router	Format Converter	259M w 125M	digital composite
24	102	SD Router	Format Converter	170M	analog
24	102	SD Router	Format Converter	305M	
24	102	SD Router	Format Converter	DVB-ASI	Transport Stream
25	24	Splicer	SD Router	DVB-ASI	TS
25	24	Splicer	SD Router	305M	TS, ES, DV, AES3
32	33	Data bridge	Data Inserter	RS232	
32	33	Data bridge	Data Inserter	RS422	

From #	To #	From Name	To Name	Interface Name	Comments
32	34	Data Bridge	Video Encoder	Ethernet	Logical formatting?
32	34	Data Bridge	Video Encoder	RS232	"
32	34	Data Bridge	Video Encoder	RS422	"
32	78	Data Bridge	Insertion Unit	?	
32	78	Data Bridge	Insertion Unit		
32	78	Data Bridge	Insertion Unit		
33	37	Data Inserter	Encoder	?	
33	93	Data Inserter	STL	170M	analog composite
33	93	Data Inserter	STL	259M w 244M, analog audio	digital composite
33	93	Data Inserter	STL	259M w 244M, AES3 audio	"
33	93	Data Inserter	STL	259M w 244M, 272M embedded audio	"
34	35	Video Encoder	AC-3 Encoder	Internal	Disembedding in video encoder
34	35	Video Encoder	AC-3 Encoder	AES3	
34	36	Video Encoder	Multiplexer	305M	
34	36	Video Encoder	Multiplexer	internal proprietary	
35	36	AC-3 Encoder	Multiplexer	AES3 data	
35	36	AC-3 Encoder	Multiplexer	internal proprietary	
36	24	Multiplexer	Router	305M	
36	24	Multiplexer	Router	DVB-ASI	
36	39	Multiplexer	Splicer	305M	
36	39	Multiplexer	Splicer	DVB-ASI	
36	90	Multiplexer	ATSC Multiplexer	305M	
36	90	Multiplexer	ATSC Multiplexer	DVB-ASI	
36	90	Multiplexer	ATSC Multiplexer	internal proprietary	
37	92	Encoder	STL Multiplexer	305M	
37	92	Encoder	STL Multiplexer	DVB-ASI	
37	92	Encoder	STL Multiplexer	DS-3	
37	92	Encoder	STL Multiplexer	NuComm	
37	92	Encoder	STL Multiplexer	GI Magnitude encoder and mux	
37	92	Encoder	STL Multiplexer	Internal proprietary	
38	90	Splicer	ATSC Multiplexer	305M	
38	90	Splicer	ATSC Multiplexer	DVB-ASI	
39	90	Splicer	ATSC Multiplexer	305M	
39	90	Splicer	ATSC Multiplexer	DVB-ASI	
40	90	Splicer	ATSC Multiplexer	DVB-ASI	Transport stream
40	90	Splicer	ATSC Multiplexer	305M	
41	90	Splicer	ATSC Multiplexer	DVB-ASI	Transport stream
41	90	Splicer	ATSC Multiplexer	305M	
42	90	Splicer	ATSC Multiplexer	DVB-ASI	Transport stream
42	90	Splicer	ATSC Multiplexer	305M	
43	90	Splicer	ATSC Multiplexer	DVB-ASI	Transport stream
43	90	Splicer	ATSC Multiplexer	305M	
46	47	Receiver	Demux	DVB-ASI	Transport stream

From #	To #	From Name	To Name	Interface Name	Comments
46	47	Receiver	Demux	305M	MPEG TS, ES; or DV, etc.
46	47	Receiver	Demux	DS3	
46	47	Receiver	Demux	G.703	
46	47	Receiver	Demux	Internal	
46	47	Receiver	Demux	292M	
46	47	Receiver	Demux	310M	TSL/ICR Link
47	4	Demux	Demux	DVB-ASI	Transport Stream
47	4	Demux	Demux	305M	
47	4	Demux	Demux	310M	TSL/ICR Link
47	50	Demux	Demux	305M	
47	50	Demux	Demux	DVB-ASI	Transport stream
47	50	Demux	Demux	292M w data	
47	50	Demux	Demux	310M	TSL/ICR Link
49	44	Demod	Mux	DVB-ASI	Transport stream
49	44	Demod	Mux	305M	MPEG TS, ES; or DV, etc.
49	44	Demod	Mux	DS3	
49	44	Demod	Mux	G.703	
49	44	Demod	Mux	292M	
49	44	Demod	Mux	310M	TSL/ICR Link
49	50	Demod	Demux	292M w data	
49	50	Demod	Demux	DVB-ASI	Transport stream
49	50	Demod	Demux	305M	MPEG TS, ES; or DV, etc.
49	50	Demod	Demux	DS3	
49	50	Demod	Demux	G.703	
49	50	Demod	Demux	310M	TSL/ICR Link
50	52	Demux (Assume demux includes CA descrambler)	HD Video Decoder	292M w data	
50	52	Demux (Assume demux includes CA descrambler)	HD Video Decoder	305M	ES, TS
50	52	Demux (Assume demux includes CA descrambler)	HD Video Decoder	DVB-ASI	transport stream
50	52	Demux (Assume demux includes CA descrambler)	HD Video Decoder	Internal	
50	53	Demux	Audio Decoder	AES3	
50	70	Demux	HD Router	292M w data	
51	70	HD Upconverter	HD Router	292M	
52	70	HD Video Decoder	HD Router	292M	
53	70	Audio Decoder	HD Router	AES3	
53	70	Audio Decoder	HD Router	292M w 299M	embedded
56	57	Demod	Demux	292M w data	
56	57	Demod	Demux	DVB-ASI	Transport stream
56	57	Demod	Demux	305M	MPEG TS, ES; or DV, etc.
56	57	Demod	Demux	DS3	
56	57	Demod	Demux	G.703	
56	57	Demod	Demux	310M	TSL/ICR Link
56	57	Microwave Demod	Demux		

From #	To #	From Name	To Name	Interface Name	Comments
57	58	Demux (Assume demux includes CA descrambler)	HD Video Decoder	292M w data	
57	58	Demux (Assume demux includes CA descrambler)	HD Video Decoder	305M	ES, TS
57	58	Demux (Assume demux includes CA descrambler)	HD Video Decoder	DVB-ASI	transport stream
57	58	Demux (Assume demux includes CA descrambler)	HD Video Decoder	Internal	
57	59	Demux	Audio Decoder	AES3	
57	70	Demux	HD Router	292M w data	
58	70	HD Video Decoder	HD Router	292M	
59	70	Audio Decoder	HD Router	AES3	
59	70	Audio Decoder	HD Router	292M w 299M	embedded
60	61	Fibre	Fibre Demod		
61	62	Demod	Demux	292M w data	
61	62	Demod	Demux	DVB-ASI	Transport stream
61	62	Demod	Demux	305M	MPEG TS, ES; or DV, etc.
61	62	Demod	Demux	DS3	
61	62	Demod	Demux	G.703	
61	62	Demod	Demux	310M	TSL/ICR Link
61	62	Demod	Demux	292M w data	Check worksheets
61	62	Demod	Demux	DVB-ASI	
61	62	Demod	Demux	305M	
61	62	Demod	Demux	DS3	
61	62	Demod	Demux	G.703	
61	97	Fibre Demod	VSB modulator	310M	
61	97	Fibre Demod	VSB modulator	DVB-ASI	?
62	63	Demux (Assume demux includes CA descrambler)	HD Video Decoder	292M w data	
62	63	Demux (Assume demux includes CA descrambler)	HD Video Decoder	305M	ES, TS
62	63	Demux (Assume demux includes CA descrambler)	HD Video Decoder	DVB-ASI	transport stream
62	63	Demux (Assume demux includes CA descrambler)	HD Video Decoder	Internal	
62	64	Demux	Audio Decoder	AES3	
62	70	Demux	HD Router	292M w data	
63	70	HD Video Decoder	HD Router	292M	
64	70	Audio Decoder	HD Router	AES3	

From #	To #	From Name	To Name	Interface Name	Comments
64	70	Audio Decoder	HD Router	292M w 299M	embedded
66	67	Demod	Demux	292M w data	
66	67	Demod	Demux	DVB-ASI	Transport stream
66	67	Demod	Demux	305M	MPEG TS, ES; or DV, etc.
66	67	Demod	Demux	DS3	
66	67	Demod	Demux	G.703	
66	67	Demod	Demux	310M	TSL/ICR Link
66	97	Laser Demod	VSB Modulator	310M	
66	97	Laser Demod	VSB Modulator	DVB-ASI	?
67	68	Demux (Assume demux includes CA descrambler)	HD Video Decoder	292M w data	
67	68	Demux (Assume demux includes CA descrambler)	HD Video Decoder	305M	ES, TS
67	68	Demux (Assume demux includes CA descrambler)	HD Video Decoder	DVB-ASI	transport stream
67	68	Demux (Assume demux includes CA descrambler)	HD Video Decoder	Internal	
67	69	Demux	Audio Decoder	AES3	
67	70	Demux	HD Router	292M w data	
68	70	HD Video Decoder	HD Router	292M	
69	70	Audio Decoder	HD Router	AES3	
69	70	Audio Decoder	HD Router	292M w 299M	embedded
70	7	HD Router	HD downconverter	292M	
70	8	HD Router	HD format converter	292M	
70	71	HD Router	Splicer	292M	
70	79	HD Router	HD Video Encoder	292M	w/o embedded audio
70	79	HD Router	HD Video Encoder	292M w 299M	w embedded audio
70	80	HD Router	AC-3 Encoder	AES3	
70	82	HD Router	HD Splicer	292M w data	
70	83	HD Router	HD Keyer	292M	implies keyer does compression
70	83	HD Router	HD Keyer	292M w data	
70	84	HD Router	HD Splicer	292M w data	
70	85	HD Router	HD Keyer	292M	Implies keyer does compression
70	85	HD Router	HD Keyer	292M w data	compressed key
70	90	HD Router	ATSC Multiplexer	292M w data	HD-305M
71	70	Splicer	HD Router	292M	May be MPEG, DV, etc.
79	80	HD Video Encoder	AC-3 Encoder	AES3	
79	81	HD Video Encoder	HD Multiplexer	Internal	
79	81	HD Video Encoder	HD Multiplexer	292M w data	
80	81	AC-3 Encoder	HD Multiplexer	AES3 w data	
81	70	HD Multiplexer	HD Router	292M w data	
81	82	HD Multiplexer	HD Splicer	292M w data	
81	82	HD Multiplexer	HD Splicer	DVB-ASI	Transport Stream
81	82	HD Multiplexer	HD Splicer	305M	
81	87	HD Multiplexer	HD Router	292M w data	

From #	To #	From Name	To Name	Interface Name	Comments
82	83	HD Splicer	HD Keyer	292M w data	
82	83	HD Splicer	HD Keyer	DVB-ASI	Transport Stream
82	83	HD Splicer	HD Keyer	305M	
83	90	HD Keyer	ATSC Multiplexer	292M w data	HD-305M
83	90	HD Keyer	ATSC Multiplexer	DVB-ASI	Transport Stream
83	90	HD Keyer	ATSC Multiplexer	310M	
83	90	HD Keyer	ATSC Multiplexer	305M	
84	85	HD Splicer	HD Keyer	292M w data	
84	85	HD Splicer	HD Keyer	DVB-ASI	
84	85	HD Splicer	HD Keyer	305M	
85	90	HD Keyer	ATSC Multiplexer	292M w data	HD-305M
85	90	HD Keyer	ATSC Multiplexer	DVB-ASI	
85	90	HD Keyer	ATSC Multiplexer	310M	
85	90	HD Keyer	ATSC Multiplexer	305M	
90	91	ATSC Multiplexer	Scrambler	DVB-ASI	
90	91	ATSC Multiplexer	Scrambler	Internal proprietary	
90	92	ATSC Multiplexer	STL Multiplexer	DS-3	which version?
90	92	ATSC Multiplexer	STL Multiplexer	310M	
90	92	ATSC Multiplexer	STL Multiplexer	DVB-ASI	
90	92	ATSC Multiplexer	STL Multiplexer	ITU G.703	
90	92	ATSC Multiplexer	STL Multiplexer	305M	
90	92	ATSC Multiplexer	STL Multiplexer	STS-3c/OC-3 (STM-1)	
90	92	ATSC Multiplexer	STL Multiplexer	ATM over STS- 3c/OC3 (ATM over STM-1)	
90	92	ATSC Multiplexer	STL Multiplexer	ATM over DS-3	
90	92	ATSC Multiplexer	STL Multiplexer	ATM over ITU G.703	
90	92	ATSC Multiplexer	STL Multiplexer	DVB-SPI (LVDS)	
90	93	ATSC Multiplexer	STL	DS-3	which version?
90	93	ATSC Multiplexer	STL	310M	
90	93	ATSC Multiplexer	STL	DVB-ASI	
90	93	ATSC Multiplexer	STL	ITU G.703	
90	93	ATSC Multiplexer	STL	305M	
90	93	ATSC Multiplexer	STL	STS-3c/OC-3 (STM-1)	
90	93	ATSC Multiplexer	STL	ATM over STS- 3c/OC3 (ATM over STM-1)	
90	93	ATSC Multiplexer	STL	ATM over DS-3	
90	93	ATSC Multiplexer	STL	ATM over ITU G.703	
90	93	ATSC Multiplexer	STL	DVB-SPI (LVDS)	
90	94	ATSC Multiplexer	CATV feed	?	TBD after [94] defined
90	97	ATSC Multiplexer	8-VSB Exciter	310M	
90	97	ATSC Multiplexer	8-VSB Exciter	DVB-ASI	
90	97	ATSC Multiplexer	8-VSB Exciter	DVB-SPI	
91	92	Scrambler	STL Multiplexer	DS-3	which version?
91	92	Scrambler	STL Multiplexer	310M	
91	92	Scrambler	STL Multiplexer	DVB-ASI	
91	92	Scrambler	STL Multiplexer	ITU G.703	
91	92	Scrambler	STL Multiplexer	305M	

From #	To #	From Name	To Name	Interface Name	Comments
91	92	Scrambler	STL Multiplexer	STS-3c/OC-3 (STM-1)	
91	92	Scrambler	STL Multiplexer	ATM over STS-3c/OC3 (ATM over STM-1)	
91	92	Scrambler	STL Multiplexer	ATM over DS-3	
91	92	Scrambler	STL Multiplexer	ATM over ITU G.703	
91	92	Scrambler	STL Multiplexer	DVB-SPI (LVDS)	
91	93	Scrambler	STL	?	
91	94	Scrambler	CATV Feed	? TBD	
91	97	Scrambler	8-VSB Exciter	310M	
91	97	Scrambler	8-VSB Exciter	DVB-ASI	
91	97	Scrambler	8-VSB Exciter	DVB-SPI	
92	93	STL Multiplexer	STL	DS-3	which version?
92	93	STL Multiplexer	STL	310M	
92	93	STL Multiplexer	STL	DVB-ASI	
92	93	STL Multiplexer	STL	ITU G.703	
92	93	STL Multiplexer	STL	305M	
92	93	STL Multiplexer	STL	STS-3c/OC-3 (STM-1)	
92	93	STL Multiplexer	STL	ATM over STS-3c/OC3 (ATM over STM-1)	
92	93	STL Multiplexer	STL	ATM over DS-3	
92	93	STL Multiplexer	STL	ATM over ITU G.703	
92	93	STL Multiplexer	STL	DVB-SPI (LVDS)	
93	97	STL	VSB Exciter	310M	
93	97	STL	VSB Exciter	DVB-ASI	?
93	98	STL	NTSC Transmitter	170M	Analog composite
93	98	STL	NTSC Transmitter	259M, 243M	Digital composite
95	98	Decoder	NTSC Transmitter	170M	Analog composite
95	98	Decoder	NTSC Transmitter	259M, 243M	Digital composite
96	95	Demux	Decoder	305M	
96	95	Demux	Decoder	DVB-ASI	
96	95	Demux	Decoder	Internal proprietary	
96	97	Demux	VSB Exciter	310M	
96	97	Demux	VSB Exciter	DVB-ASI	
96	97	Demux	VSB Exciter	Internal proprietary	
97	99	VSB Exciter	DTV Transmitter		
102	70	Format Converter	HD Router	292M	