

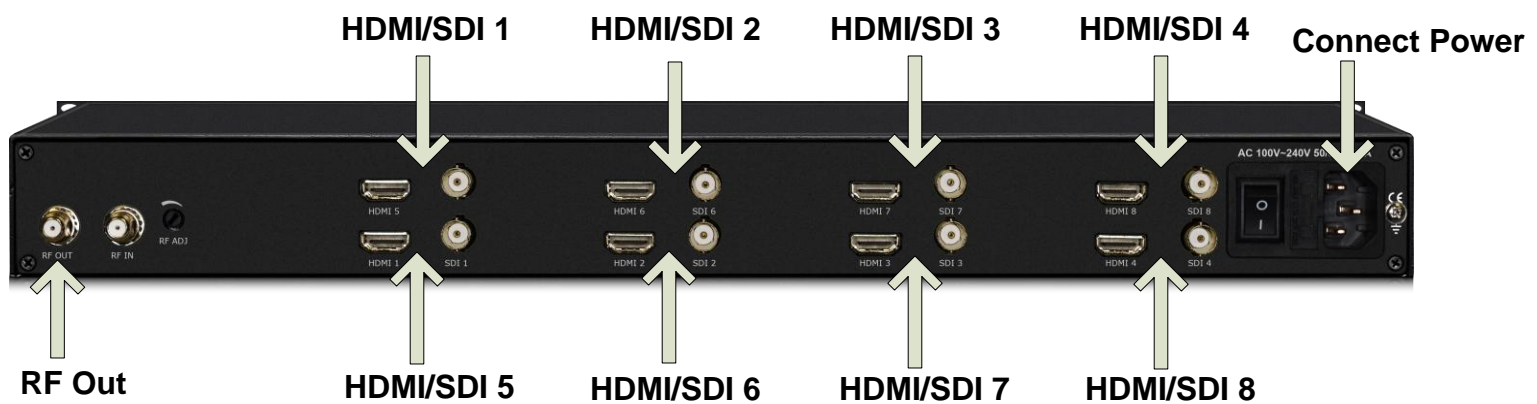
H-HYBRID-RF-8

Quick Setup Guide

Step 1: Connections

- Connect the included power supply
- Power LED will indicate when power is connected properly

Scan for more Info:



Link Lights will indicate when inputs are properly connected.

- BLUE for HDMI
- GREEN for SDI

NOTE: HDMI or SDI Inputs are individually selectable for each of the 8 total channels you can output.

Step 2: Login



- Connect the NMS port to your PC using an ethernet cable (not included)
- Open web browser and go to <http://192.168.0.188>
- Login/Password: admin/admin

Step 3: Select Inputs

▶ Encode ← Select "Encode" from the main menu

▶ Modulate

Choose Channel → Channel 1 Channel 2 Channel 3 Channel 4 Channel 5 Channel 6 Channel 7 Channel 8

Input Source: HDMI ← Select Input Source (HDMI or SDI)

Status: ●

↑ Status light indicates proper connection

Apply ← Click "Apply"

Repeat these steps as needed for all channels

Step 4: Modulate settings

▶ Encode

▶ Modulate ← Select "Modulate" from the main menu

IMPORTANT: If selecting ATSC modulation standard, refer to the ATSC frequency chart. For J.83B refer to QAM

Choose Channel → Channel 1 Channel 2 Channel 3 Channel 4 Channel 5 Channel 6 Channel 7 Channel 8

Standard: J.83B ← Choose Modulation Standard

RF Frequency: 219 ← Enter Frequency for desired channel (See charts)

Constellation: 64QAM

Major Channel: 23

Minor Channel: 1

Apply ← Click "Apply"

NOTE: When RF frequency is set, the Major channels will adjust automatically.

Repeat these steps as needed for all channels

ATSC - US Television Channels (MHz)

Channel	MHz Center Frequency	Channel	MHz Center Frequency	Channel	MHz Center Frequency
2	57	27	551	52	701
3	63	28	557	53	707
4	69	29	563	54	713
5	79	30	569	55	719
6	85	31	575	56	725
7	177	32	581	57	731
8	183	33	587	58	737
9	189	34	593	59	743
10	195	35	599	60	749
11	201	36	605	61	755
12	207	37	611	62	761
13	213	38	617	63	767
14	473	39	623	64	773
15	479	40	629	65	779
16	485	41	635	66	785
17	491	42	641	67	791
18	497	43	647	68	797
19	503	44	653	69	803
20	509	45	659		
21	515	46	665		
22	521	47	671		
23	527	48	677		
24	533	49	683		
25	539	50	689		
26	545	51	695		

CATV QAM Channel Center Frequency - 54 MHz to 860 MHz (J.83B)

QAM 256 / Symbol Rate 5.361Mpsps , QAM 64 / Symbol Rate 5.057Mpsps

EIA CH.	MHz Center Frequency	EIA CH.	MHz Center Frequency	EIA CH.	MHz Center Frequency
2	57	42	333	87	603
3	63	43	339	88	609
4	69	44	345	89	615
5	79	45	351	90	621
6	85	46	357	91	627
95	93	47	363	92	633
96	99	48	369	93	639
97	105	49	375	94	645
98	111	50	381	100	651
99	117	51	387	101	657
14	123	52	393	102	663
15	129	53	399	103	669
16	135	54	405	104	675
17	141	55	411	105	681
18	147	56	417	106	687
19	153	57	423	107	693
20	159	58	429	108	699
21	165	59	435	109	705
22	171	60	441	110	711
7	177	61	447	111	717
8	183	62	453	112	723
9	189	63	459	113	729
10	195	64	465	114	735
11	201	65	471	115	741
12	207	66	477	116	747
13	213	67	483	117	753
23	219	68	489	118	759
24	225	69	495	119	765
25	231	70	501	120	771
26	237	71	507	121	777
27	243	72	513	122	783
28	249	73	519	123	789
29	255	74	525	124	795
30	261	75	531	125	801
31	267	76	537	126	807
32	273	77	543	127	813
33	279	78	549	128	819
34	285	79	555	129	825
35	291	80	561	130	831
36	297	81	567	131	837
37	303	82	573	132	843
38	309	83	579	133	849
39	315	84	585	134	855
40	321	85	591	135	861
41	327	86	597		