

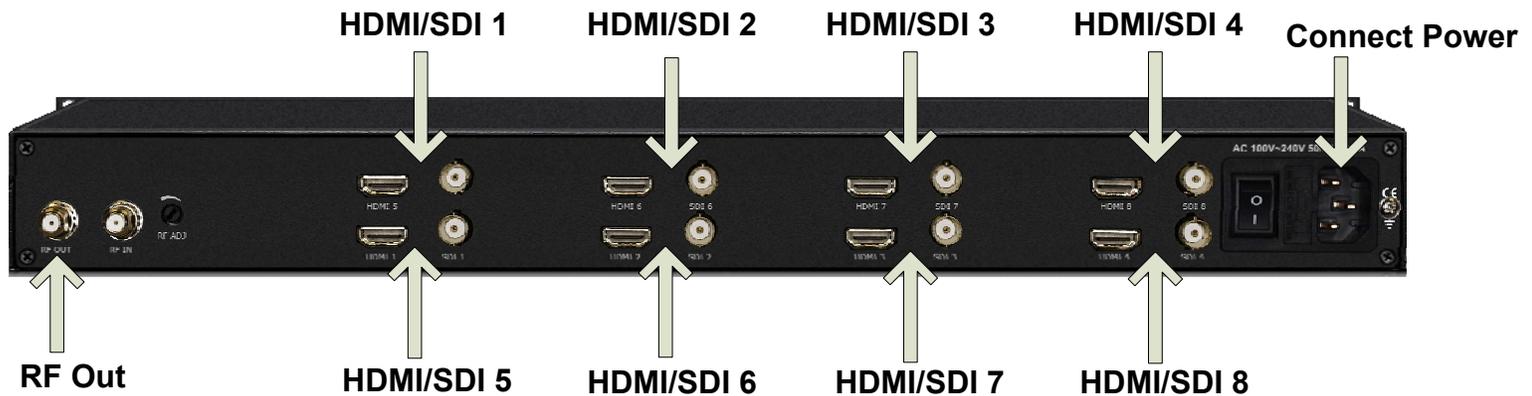
H-HYBRID-RF-8

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 | 863 | 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 | | |