



HMR5440

Multi-format Professional Receiver Decoder

HD or SD, MPEG-2 or MPEG-4 AVC decoding

The last Decoder you will ever need!

HIGHLIGHTS

- Decodes either HD or SD
- Decodes MPEG-2 or MPEG-4 AVC
- Fully Compatible & Guaranteed interoperable with the ComtechTV AVC4000 series AVC (MPEG-4) Encoders
- NTSC / PAL Composite & SDI output
- HDSDI & Analog HD output
- Analog, AES or Embedded audio output
- Input options, ASI & DVB-S std. DVB-S2, MPEG over IP with COP3 FEC, DS3/E3 available
- Two pairs audio decoding standard
- Two additional audio pairs optional
- MPEG, AC3 or Uncompressed audio decoding
- Full control front panel
- Remote control via, SNMP, Web Browser or command line interface
- PGCA Decryption Standard with optional BISS 0,1 & E



PERFORMANCE

The HMR5440 is ComtechTV's newest HD / SD decoder, capable of both MPEG-2 and AVC (MPEG-4). The HMR5440 is able to offer an unprecedented combination of features, performance and reliability *at an industry-leading price*. The HMR5440 is available in a simple highly functional base unit. You no longer have to choose a specific decoder for HD or SD, for MPEG-2 or MPEG-4. The HMR5440 simply does it all. The HMR5440 is a perfect complement to the AVC4000 series of AVC MPEG-4 encoders.

VIDEO

The HMR5440 Decoder supports all common HD and SD video formats. Video output formats supported include composite NTSC or PAL, serial digital SDI for Standard Definition, HD-SDI and Component video for High Definition. Video processing is automatically sensed by the HMR5440 and processed as either MPEG-2 or MPEG-4 AVC, HD or SD.

AUDIO

The HMR5440 Decoder decodes up to eight audio channels (4 pairs) with analog and digital outputs, and embedded in the SDI or HD-SDI.

INPUT INTERFACES

The HMR5440 Decoder is highly flexible and offers various input interfaces including: ASI, DVB-S, DVB-S2 and MPEG over IP. DS3 or E3.

OPERATOR CONTROL

The HMR5440 Decoder supports an embedded Web Browser Interface or SNMP to allow for easy command and control programming. It also offers the options of RS-232 proprietary command line M&C. As with all ComtechTV products, the HMR5440 also has a fully featured control front panel.



TECHNICAL SPECIFICATIONS- BASE MODEL

factory for availability

* *Contact*

QPSK L-band DVB-S Receiver

- Two selectable L-Band Inputs
- DVB®-Compliant FEC Decoding, Deinterleaving, and Descrambling
- 950 – 2150 MHz, 1 – 45 MSPS

ASI input module

- EN50083-9 (V2:3/98) DVB-ASI
- Active ASI loop output
- Maximum Transport rate = 213 mbps

Video Processing:

- MPEG-2 4:2:0 Main Profile @ Main Level (1 to 15 Mbps)
- (AVC) MPEG-4 Part-10 (AVC) Main Profile @ Level 3.0 (0.1 to 10Mbps)
- Horizontal Resolutions: 720, 544, 480, and 352
- Vertical Resolutions: 480/240 (NTSC) and 576/288 (PAL)
- MPEG- AVC MP @ L4 to 20 Mbps, 1080i 25, 29.97, and 30 fps, 720P 50, 59.94, and 60 fps
- MPEG-2 4:2:0 Main Profile @ High Level (Up To 80 Mbps)
- HD Resolutions: 1920 x 1080i (30, 29.97, 25 fps) and 1280 x 720p (60, 59.94, & 50 fps)

Video Output:

- Composite Analog NTSC (525) or PAL (625)
- Serial Digital Component Video (SMPTE 259M)
- Two Serial Digital Outputs Per SMPTE 292M SDI @ 1.485 Gbps, BNC
- Analog HD Video, 15-Pin D Connector

VBI Data:

- ATSC Closed Captioning (EIA-608) & (EIA-708)

Audio:

- Four Audio Channels Standard (2 pairs)
- Four Additional Channels optional (2 pairs)
- Analog, Digital or Embedded
- MPEG or Dolby® AC-3 2.0 decode
- Linear PCM, and Dolby® E Pass-Through *

Front Panel

- Rugged Pushbuttons, Illuminated LCD, Bright Indicator LEDs,

Conditional Access:

- BISS (Basic Interoperable Scrambling System) Modes 1, and E (Optional)
- PGCA – included as standard feature

Management & Control:

- Embedded Web Browser Interface For Command and Control *
- SNMP *
- RS-232 Proprietary Command Line Monitor & Control
- Fully functional Front Panel control

Physical:

- 1RU Standard 19" Rack-Mount - 8.9 cm High x 48.3 cm Wide x 58.4 cm Deep (3.5" x 19" x 17")
- Weight Less Than 10.5 kg (23 lbs.)

Power Supply:

- Operating Voltage: 95 – 135 VAC or 180 – 265 VAC, 32 Watts (Typical)

Operating Conditions:

- Ambient Temperature: 0° to 50°C

HMR5440 OPTIONS

** Contact factory for availability*

Optional Input Interfaces:

- | | |
|--------------------------------------|---|
| QPSK, 8PSK, 16QAM DVB-S & | • Two selectable L-Band Inputs |
| QPSK, 8PSK, 16APSK DVB-S2 L- | • DVB®-Compliant FEC Decoding, Deinterleaving, and Descrambling |
| band Receiver Module | • 950 – 2150 MHZ, 1 – 45 MSPS |
| 100b-T, 1000b-T Ethernet IP | • Contact Factory for availability |
| interface module | |

- | | |
|---------------------------------------|------------------------------------|
| Telephony interface – DS3 / E3 | • Contact Factory for availability |
|---------------------------------------|------------------------------------|

Optional Features

- | | |
|---------------------|---|
| AC3 Decoding | • |
|---------------------|---|

- | | |
|-----------------------------|---|
| Genlock / Frame Sync | • |
|-----------------------------|---|

- | | |
|------------------------------|---|
| CAM Module Decryption | • |
|------------------------------|---|

Analog Audio Breakout Cable

- | | |
|-------------------------------------|---|
| AES/EBU Audio Breakout Cable | • |
|-------------------------------------|---|

•

•

•

•