

MPHDE-50 MEDIA PLAYER & HD ENCODER

The MPHDE-50 is a network media player and a versatile single channel encoder combined in a 1RU assembly. It consists of a Drake model DNP-50 Android-based player coupled with a Blonder Tongue model HDE-CSV-QAM HD MPEG-2 encoder. The HDMI connection between the media player and the encoder is provided and both units are powered by a single 12 VDC power supply integrated in the chassis. 120 VAC line powering is a standard and -48 VDC power is optional. The media player's two USB ports are provided on the front panel and its 10/100 BaseT Ethernet port is presented on the rear panel.



Features

Media Player Section:

- Enhanced bit rate for 1080i output
- Android-based Operating System
- · Networked controlled API
- 10/100/1000T-base Ethernet port for remote management
- API for native applications
- · 4 GB Flash internal memory
- · SD Card port for additional storage/memory

Signage Key Points:

- Video Playback: MPEG-2 and MPEG-4 (H.264)
- · Image File Playback: PNG and JPEG
- Calendar
- Clock
- RSS News
- · Twitter Feed
- Web Page Integration

Encoder Section:

Solutions

The MPHDE-50 provides system operators an efficient and convenient solution to deliver and manage custom HD video content for a variety of applications.

MSO's:

- Enhanced bit rate for 1080p output
- Android-based Operating System
- · Networked controlled API

Hotels:

- Greeting channel information (date, time, temp, etc.)
- Local area points of interest (restaurants, shopping centers, etc)

Schools:

The MPHDE-50 provides system operators an efficient and convenient solution to deliver and manage custom HD video

- · Daily activities
- Weekly Schedules
- · Transportation routes

Universities / Government:

- Campus diagrams of buildings / locations / phone numbers
- · Local Restaurants, dry cleaners, theaters, etc.

• Simultaneously delivers the following outputs: 1xQAM, 1xASI, and 1x IP

• Provides +40 dBmV QAM RF output levels

content for a variety of applications.

- · Provides comprehensive GUI-based monitoring and control via standard Web browsers
- Supports Real-time Dolby® Digital audio encoding
- Supports user-defined PSIP configuration
- Supports Closed Captioning EIA-608 and EIA-708

Purchase from Multicom MULTICOM www.multicominc.com | 800-423-2594

Ordering Information

Model Stock # Description MPHDF-50 6385 Media Player / HD Encoder, 120 VAC Media Player / HD Encoder, -48 VDC 6385-48

Rev: 072514 Dolby® is a registered trademark of Dolby Laboratories.

Input

Component Connectors: Video Resolution: Video Aspect Ratio: Audio:	3x RCA for Video (Y, Pb, Pr) 480i, 720p, & 1080i 4:3 & 16:9 2x RCA for Analog Audio (L, R) 1x RCA for Digital Audio (PCM)
HD-SDI Connector: Standard: Video Resolution: Audio:	1x BNC SMPTE 292M 480i, 720p, & 1080i Embedded PCM and pass-through Dolby® Digital only
HDMI Connector: Video Resolution: HDCP Encryption: Audio:	1x HDMI 480i, 720p, & 1080i Not supported Embedded PCM and pass-through Dolby® Digital only
VGA Connectors: Video Resolution: Audio:	2x Female VGA (Input + Loop-through Output) 640x480 @ 60 fps 800x600 @ 60 fps 1024x768 @ 60 fps 2x RCA for Analog Audio (L, R) 1x RCA for Digital Audio (PCM)
Composite Video Connectors: Video Resolution: Audio:	1x RCA for Video (Y) 480i 2x RCA for Analog Audio (L, R) 1x RCA for Digital Audio (PCM)

Encoding Profile	
Video Output Format: Chroma: Resolution: Frame rate: Aspect Ratio: GOP Structure: Transport Rate: Video Bit Rate: Video Pre-filter: Color Space:	MPEG-2 HD MP@ML; ISO 13818-2 4:2:0 480i, 720p, & 1080i 29.97 fps (480i); 29.97 fps (1080i); 59.97 fps (720p) 4:3 & 16:9 I & P frames (user-selectable) Variable (user-selectable) Variable (user-selectable) Variable (user-selectable) Variable (user-selectable) Variable (user-selectable) VCbCr and RGB
Output Format: Sampling rate: Bit rate:	Dolby® Digital 48 kHz Variable; 128-320 Kbps (user-selectable)
Closed Captioning Component: HD-SDI: HDMI: VGA: Composite:	, ()

General

Dimensions (W x D x H):	19.0 x 14.0 x 1.75 inches (483 x 356 x 45 mm)
Power:	Stock# 6385: 100 - 240 VAC (50/60 Hz)
	Stock# 6385-48: - 48 VDC
Power Dissipation:	30 W
Weight:	10 lbs (? kg)
Operating Temperature:	32 to 104 °F (0 to 40 °C)
Storage Humidity:	5 to 85% RH @ 40 °C max, non-condensing

Output

QAM	
Connector:	1x "F" Female (rear panel)
Modulation:	QAM 16, 32, 64, 128, and 256
Standards:	ITU-T J.83: Annex A and B
DVB Symbol Rate:	Variable; up to 7 MSymbol/sec (MBaud)
Frequency Range:	54 to 1002 MHz
Tuning:	
Channel Bandwidth:	6 MHz
RF Level:	+40 dBmV ± 1 dB (4 channels combined)
	+32 to +42 dBmV. 1 dB increment
RF Level Adjustment Range:	,
Frequency Tolerance:	± 0.5 kHz @ 77 °F (25 °C)
Frequency Stability:	± 5 kHz over 32 to 122 °F (0 to 50 °C)
Amplitude Flatness:	± 0.25 dB (over 6 MHz channel)
Phase Noise:	30 420 (@ 13 1412)
Spurious:	-60 dBc
Broadband Noise:	-70 dBc (@ +40 dBmV output level, 5.5 MHz bandwidth)
Impedance:	75 Ω
Spectral Inversion:	Auto Recognition
Carrier Suppression:	45 dB
Return Loss:	14 dB typical
Signal-to-Noise Ratio (SNR):	40 dB typical
MER:	40 dB typical
I/Q Phase Error:	Less than 1 degree
I/Q Amplitude Imbalance:	Less than 1%
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ASI	
Connector:	1x BNC (front-panel)
Format:	DVB-ASI TO THE TOTAL TO THE TOTAL TO
Standard:	ETSI EN 50083-9
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Connector:	ix iii io (iioni panoi)
Format:	10/100Base-T Ethernet
Standard:	Supported (user-selectable)

Media Player Specifications

Input/Output

Video Input: (1x) Ethernet 10/100 BASE-T (2x) USB 2.0 High Speed **Video Output:** HDMI (full HD 1080p with audio) Composite Video **Audio Output:** 3.5mm (part of Composite Analog Output)

> **Internal Storage:** 4 GB Flash Memory (Approx. 180 minutes of 720p video @ 3.0 mbps)

SD Card Slot for Memory Expansion up to 32GB SD/SDHC Card

Files Supported

Image Files: JPEG (480p baseline, 720p baseline) PNG (480p, 720p) MPEG-2 (480p, 720p) **Video Files:** MPEG-4 / H.264 (480p, 720p, 1080p) VC1 / WMV9 (720p) Other Media: RSS Feeds (requires live Internet connectivity) Web Page (requires live Internet connectivity) Twitter® Feed (requires live Internet connectivity)

