

HDME-4Q

Quick Start Guide



4 Input QAM HD Encoder / Modulator
Mpeg-2 / H.264

Safety Precautions

The presence of this symbol is to alert the installer and user to the presence of uninsulated dangerous voltages within the product's enclosure that may be of sufficient magnitude to produce a risk of electric shock.



TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE. DO NOT OPEN THE UNIT. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

- DO NOT apply power to the unit until all connections have been made, all components have been installed and all wiring has been properly terminated.
- DO NOT terminate, change or uninstall any wiring without first disconnecting the unit's power adapter from the device.
- This device is supplied with the appropriately rated power supply. The use of any other power supply could cause damage and invalidate the manufacturer's warranty.
- DO NOT connect the power cord to the device if the power cord is damaged.
- DO NOT cut the power cord.
- DO NOT plug the power cord into an AC outlet until all cables and connections to the device have been properly connected.
- The device should be installed in an environment consistent with its operating temperature specifications. Placement next to heating devices and ducts is to be avoided as doing so may cause damage. The device should not be placed in areas of high humidity.
- DO NOT cover any of the device's ventilation openings.
- DO NOT cover or obstruct the device's fan or fan openings.
- If the device has been in a cold environment allow it to warm to room temperature for at least 2 hours before connecting to an AC outlet.



Package Contents

This package contains:

- One HDME-4Q
- One power cable
- One installation / configuration manual

Inspect the package before starting installation to ensure there is no damage and all supplied contents are present.

Product Description

ZyCast's HDME-4Q Encoder/Modulator provides a High Density 4 input MPEG-2/MPEG-4 selectable 2 channel per QAM output making it ideal for any Commercial RF Network. The high quality HD/SD design allows for watching action packed movies and sports channels on any HDTV. Thor Digital's 4Q Encoder/Modulator supports a variety of DTV standards. The space saving design delivers 4 High Quality HD/SD channels in a single 1RU space..

- High Resolution 1080i/1080p
- MPEG2 or MPEG4 (AVC) Selectable Video Output
- GUI Interface for Setup and Control
- Front panel LCD Display for easy installation
- Virtual Channel Mapping
- Composite, Component, and HDMI (unencrypted) inputs
- MER > 40dB
- Closed Captioning Support (708)
- +45dBmV Output
- Rack mountable 1RU height

This guide is designed to assist the integrator to quickly setup and deploy High Quality HD video using the HDME-4Q. For a comprehensive User Guide and Manual *see full Installation Manual for HDME-4Q.*

Basic Setup

1. Connect the input A/V cable source to the HDME-4Q.
2. Connect RF Cable from HDME-4Q to HDTV or Headend Combiner.
3. Apply Power to HDME-4Q.
4. Connect an Ethernet cable from the HDME-4Q WEB Management port to a PC.
5. Enter the HDME-4Q's IP address into a Web Browser.
6. Login into Web Management
7. Set Encoder/Modulator settings

GUI Login Password:

Default User Name: **admin**
Default Password: **Admin123**

Basic HDME-4Q Setup:

Step 1: Select QAM Output Channel and Enable VCN

Common Setup

Common Setup

This page allows the user to setup common configurations. Here you may save the changed values into browser's session storage. After you review all your updates for common, RF, and encoders' setup, you can use the upload and reboot function to store the new parameters for the device.

Output Channel:	102 (663.0000 MHz) ▾
VCN Mode:	VCN(MAJOR & MINOR) Auto ▾
Channel Type:	STD ▾
Regional Name:	USA
Device Address:	1 ▾

Local Save Upload and Reboot Reset local changes

1. Select Common Setup
2. Set Output Channel
3. Enable/Select VCN Mode for Virtual Channel
4. Change Device Address if more than 1 Encoder in system
(Do not set Device address to 0)
5. Perform Local Save

Note: Save All Changes made on Common Setup page

Step 2: Select Each Encoder Settings as required

Encoder Setup

Encoder Setup

This page allows the user to configure the encoder's settings. Here you may save the changed values into browser's session storage. After you review all your updates for common, RF, and encoders' setup, you can use the upload and reboot function to store the new parameters for the device.

Encoder 1 Encoder 2 Encoder 3 Encoder 4

VCN:	102 ▾ 1 ▾
Video Input:	Auto detect ▾
Program Number:	1 ▾
Short Name:	MY-DTV1
Long Channel Name:	ATSC-Digital-TV1
Source ID:	101 ▾
Aspect Ratio:	16:9 ▾
Video Output:	MPEG2 CBR ▾
Audio Input:	Auto detect ▾
Audio Output:	MPEG1 Layer2 (MP2) ▾
Closed Caption:	<input checked="" type="checkbox"/>
Brightness:	128 ▾
Contrast:	128 ▾
Saturation:	128 ▾
Hue:	128 ▾

Local Save Upload and Reboot Reset local changes

Select the Encoder 1, 2, 3, 4 tab to program an individual encoder.

1. Select Encoder Setup
2. Set VCN Channel (if VCN Enabled)
3. Set Short and Long Channel Names
4. Select Video Output
5. Perform 'Local Save' on each Encoder after setting parameters.

Note: *Save All Changes made on each Encoder tab**

* **Note:** Consult a Channel Frequency guide as needed

Step 3: Select 'Upload and Reboot' after setting and performing a 'Local Save' for each Encoder

Reminder: If changing only one setting on a specific setup page- remember to **perform a Local Save and Upload and Reboot** after making changes.

Web Management Setup

Setting Device Management Port IP Address

Network Configuration

This page allows user to configure the encoder's network settings.

CAUTION: Incorrect settings may cause the encoder to lose network connectivity. Recovery options will be provided on the next page.

Enter the new settings for the encoder below:

Host Name:	<input type="text" value="THORDIGITAL-###"/>
	THORDIGITAL-001
	<input type="checkbox"/> Enable DHCP
IP Address:	<input type="text" value="192.168.1.9"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Gateway:	<input type="text" value="0.0.0.0"/>
	<input type="button" value="Save Config"/>

Step 4: Set Static IP Address (if required)

1. To set a Static IP-Uncheck 'Enable DHCP'
2. Enter IP address, Subnet Mask, Gateway
3. Select 'Save Config'

Note: Only the Network Configuration changes will be saved. Device will reboot and apply any Network Config changes made.
** Only the Network Configuration changes will be saved.

Administration

Administration

Reboot the device. All unsaved settings will be lost.

Reset configuration to factory default.

Backup and download current configuration settings to a local file.

Config File: no file selected

Upload the pre-saved configuration settings to device.

CAUTION: The new password must contain:

- 6~8 characters
- At least one digit
- At least one uppercase character
- At least one lowercase character

Old Password:	<input type="text"/>
New Password:	<input type="text"/>
Retype New Password:	<input type="text"/>
	<input type="button" value="Save and Confirm"/>

After changing the password use the Save and Confirm button. The encoder will reopen to the Welcome page allowing the user to use the new password.

Step 5: Save Device Configuration files

1. Backup Config files for HDME-4Q Encoder
2. If required save new Password
3. Select 'Save and Confirm' to save new password

Overview Screen

Overview

Common Setup

RF Setup

Encoder Setup

Web Management Setup

Administration

Welcome!

Device Name: THORDIGITAL-001
Model Number: HDME-4Q
Device Address: 1
System: DVB-C J.83B
Net Version: 20140620



RF Output 1

Channel 103 (669.0000 MHz)

Constellation 256QAM

Output Bitrate 38.811

RF Output 2

	Input 3	Input 4
Channel Name	MY-DTV3	MY-DTV4
Video Source	Auto	Auto
Video Output	MPEG2	MPEG2
Audio Output	MP2	MP2
Input Bitrate	8.545	8.570

Copyright © 2013 THOR DIGITAL

The Overview Page offers a quick status of the Encoder/Modulator. Select RF1 Output or RF Output 2 to review the status of all 4 channels.

Note: Above image displays RF Output 2- Channel 103. RF1 Output Channel is 102.

RF Setup

RF Setup

This page allows the user to configure RF parameters for the encoder. Here you may save the changed values into browser's session storage. After you review all your updates for common, RF, and encoders' setup, you can use the upload and reboot function to store the new parameters for the device.

RF Output 1

RF Output 2

Constellation: 256QAM ↕

Interleaver: I=128, J=1 ↕

RF Output:
 Normal
 Inverted
 C.W.

TS ID:

Local Save
Upload and Reboot
Reset local changes

RF Setup tab can be used to modify the Interleaver and RF Output type (if required). Most installations will not require any changes to the default settings.

6

HDME-4Q Quick Start Manual V1.0

HDME-4Q Product Notes

Item	Value
Password	
Serial Number	
Installation Date	
Purchase Date	
Video Input 1	
Video Input 2	
Video Input 3	
Video Input 4	

Distributed by: