digi-MOD HD by resi-linx

digi-MOD HD Range

digi-MOD HD-1600
www.resi-linx.com

HD-1600 Single Input MPEG-4 DVB-T HD Encoder/Modulator User Guide and Install Manual

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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 HD-1600 Encoder / Modulator
- One Power Supply
- One installation / configuration manual

Inspect the package before starting installation to ensure there is no damage and all supplied contents are present. Contact your distributor or dealer should the device be damaged or package contents are incomplete.

Product Description

The resi-linx digi-MOD HD-1600 Encoder/Modulator provides an MPEG-4 DVB-T output stream, making it ideal for any Commercial RF Network. The high quality HD design allows for watching action packed movies and sports channels on any MPEG-4 HDTV. The space saving design delivers a High Quality HD DVB-T channel.

FEATURES:

- Front panel LCD Display for basic installation
- High Resolution Output - up to 1080p
- LCN Adjustment & Mode
- HDMI (unencrypted) Input
- HDMI Loop Through Output
- MPEG-4 (AVC) Video Output
- Selectable Constellation
- Closed Captioning Support
- 85dB Output
- Compact housing with Cool & silent operation
- IR Return Path with Power Through option

Specification

VIDEO INPUTS (Video by Priority)	
HDMI Version	1.4
VIDEO ENCODER	
Mode	MPEG-4 (AVC)
Video Resolution	1080p, 1080i, 720p, 576p, 576i, 480p, 480i
AUDIO ENCODER	
Audio Compression	MPEG-1 Layer II, AAC
RF DVB-T SUPPORT	
RF Channel Output	Single DVB-T Channel between 6-12VHF & 28-69 UHF
Constellation	64QAM (16QAM)
Bandwidth	7 MHz
RF Level Output	85dB
MER	>36dB Typical
FEC	7/8
Guard Interval	1/32
OFDM	8K (2K)
Attenuation	Variable
RF Output	“F” - Female 75 ohm
MANAGEMENT / CONTROL	
Front Panel LCD Control	RF Output Channel and LCN Adjustment (Up/Down/OK Buttons)
GUI	IE9, Firefox, Chrome, Safari

**Subject to change without prior notice

Installation

System Installer must adhere to Australian Standards AS1367:2007 that provides guidelines for proper grounding and specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

UNPACKING AND INSPECTION

Each unit is shipped factory tested. Ensure all items are removed from the container prior to discarding any packing material

Thoroughly inspect the unit for shipping damage with particular attention to connectors and controls. If there is any sign of damage to the unit or damaged or loose connectors contact your distributor immediately. Do not put the equipment into service if there is any indication of defect or damage.

Hardware Installations and Connections

It is highly recommended that quality cables and connectors be used for all video and audio source connections.

1. Use a HDMI cable to connect the video source to the HD-1600 HDMI IN.
2. Use a HDMI cable to connect from the HD-1600 HDMI OUT (loop through) port to the local TV.
3. Use a coaxial cable lead to connect from the HD-1600 RF OUT to the TV system.
4. Connect the included power supply to the HD-1600 DC 12V power jack.
5. Connect the power supply the power point
6. If you require Web Management, connect an RJ45 cable to your PC (refer to page 6 for connection procedure)
7. If IR return Path is required, connect an IR Emitter (RL-IR700/800) to the IR Repeater Port and attach to your source you wish to control. For IR return path to work, please use with RL-RF380, RL-IR700/800 & RL-RF210 Target and follow instructions (please refer to install manual with RL-RF380 for instructions)

NOTE:
It is highly recommended that you use a high quality HDMI cable for all source connections.

Modulator Setup and Configuration

Initial Setup

The HD-1600 front panel is used to configure the modulator RF Output & LCN.

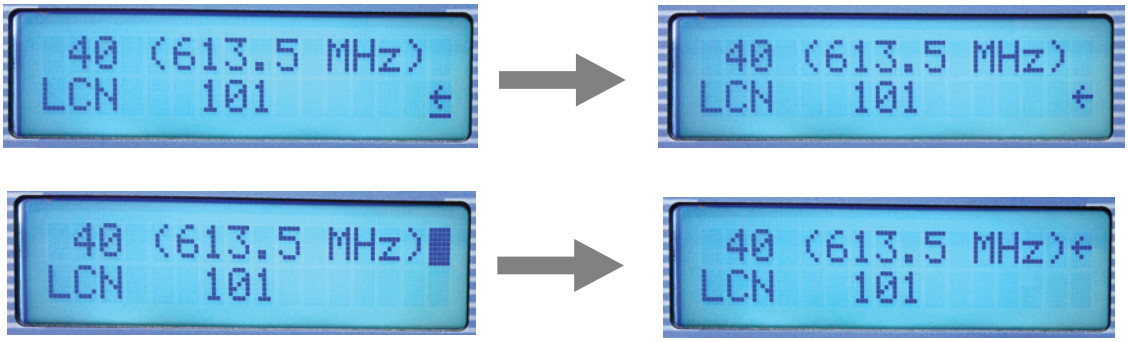
Modulator Configuration

Once the HD-1600 is powered up it will go through an initial booting process. When booting process is finished, the LCD display will show default channel number and LCN.

There are two parameters to setup:

1. Channel number
2. LCN

For switching between the two settings, press the OK Button until the arrow flashes. Press the UP/DOWN buttons to select the desired setup parameters. Once completed – press the OK Button again to confirm



Output Channel – Use the Scroll Up/Down button to change the output channel. Available channels are depending on your local system. Once a desired output channel is selected, press the OK Button to set the channel. NOTE: Default RF Output channel is set to UHF 21 – please move to available channel for your installation as this channel is not available in most tuners.

LCN – Use the Up/Down button to change the LCN (Logic Channel Number) The LCN default value is 101. Once the desired LCN is selected, press the OK Button to set the LCN

Reset to Default – Turn OFF the HD-1600 for button on rear of unit. While holding down the UP and DOWN buttons, turn ON the unit. Release the UP and DOWN buttons when the LCD shows “Reset to Default”. The unit will reset to factory default.

Caution – Reset to Default will reset the HD-1600 – all settings in the encoder will be lost.

Procedure to Connect to HD-1600 via Web Management Port

The following procedure will allow the installer to setup the encoder via the GUI.

STEP 1:

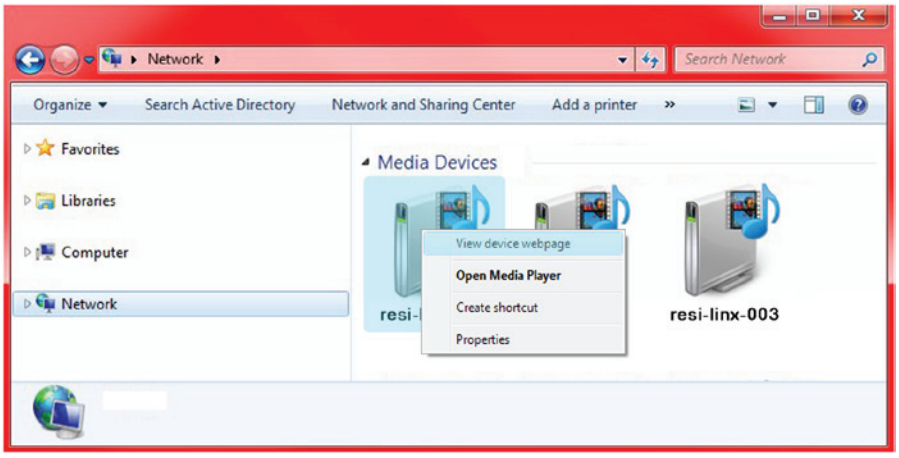
Connect a PC directly to the web management port with a standard CAT5e network cable.

STEP 2:

- Select Start ==> Computer ==> Network

The HD -1600 icon will be shown in the window labelled “Media Divices”.

Right Click on the HD-1600 icon and Select ‘View Device Webpage’.



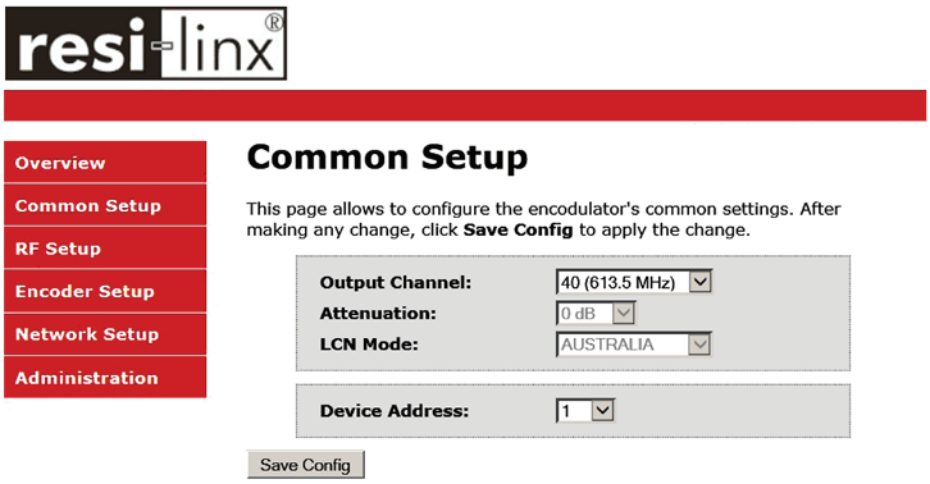
STEP 3:

Once the Welcome Page is displayed select the Encoder Setup tab and the below Login “Authentication Required” screen will be presented. Enter the User Name and Password then click Login.

User Name: admin Default Password: Admin123

STEP 4: Common Setup

This page allows you to configure the encoder common settings. After making any change, click “Save Config” to apply changes.

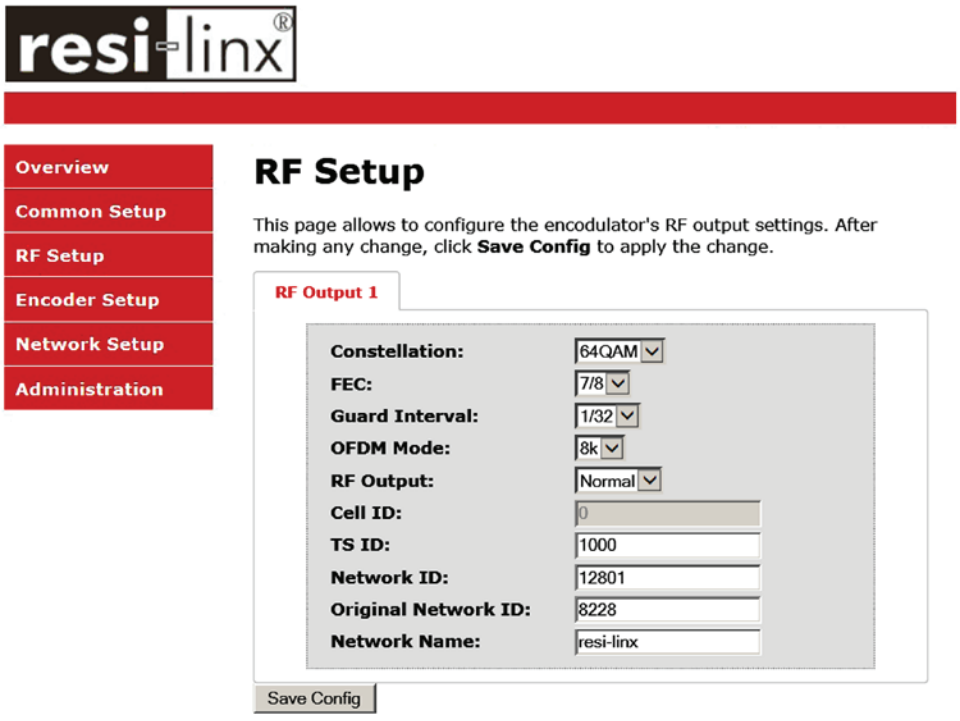


STEP 5: Attenuation

Adjust the attenuator on the reat of the HD-1600 to desired level.

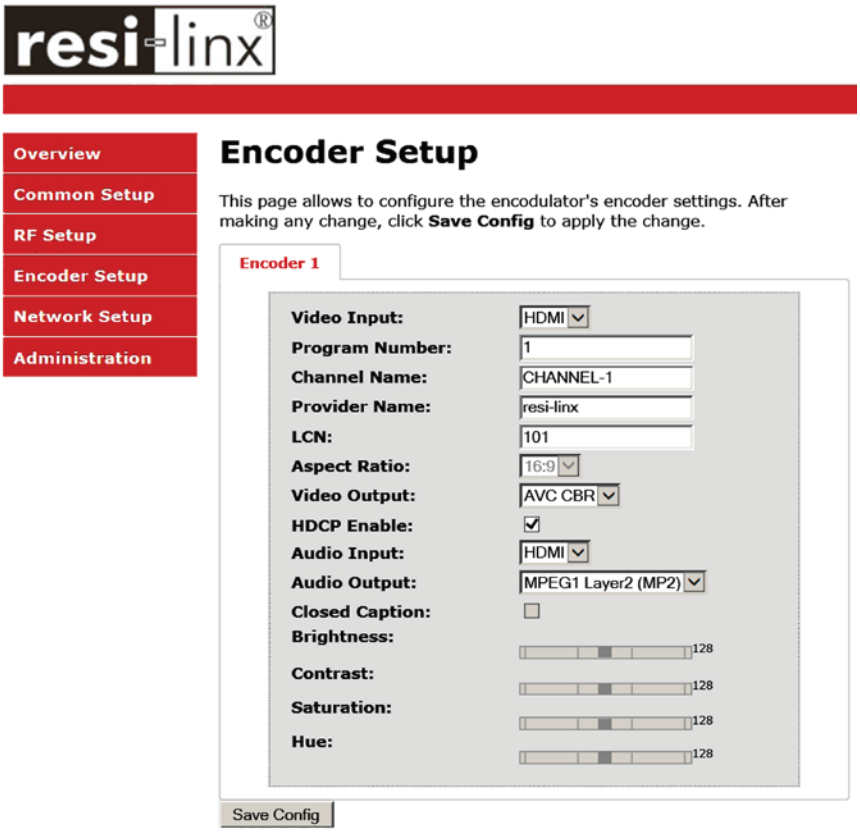
STEP 6: RF Setup

This page allows you to configure the encoder common settings. After making any change, click “Save Config” to apply change.

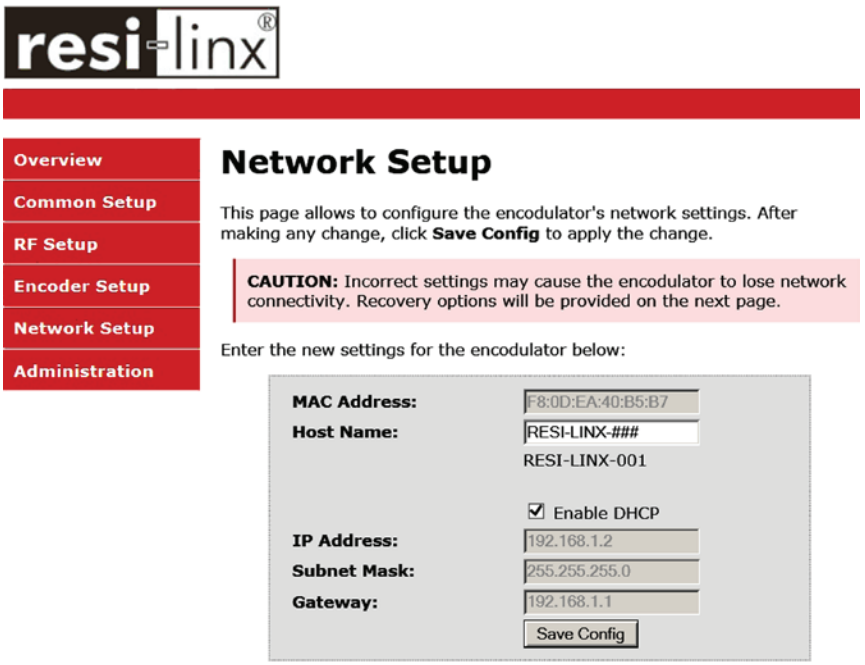


STEP 7: Encoder Setup

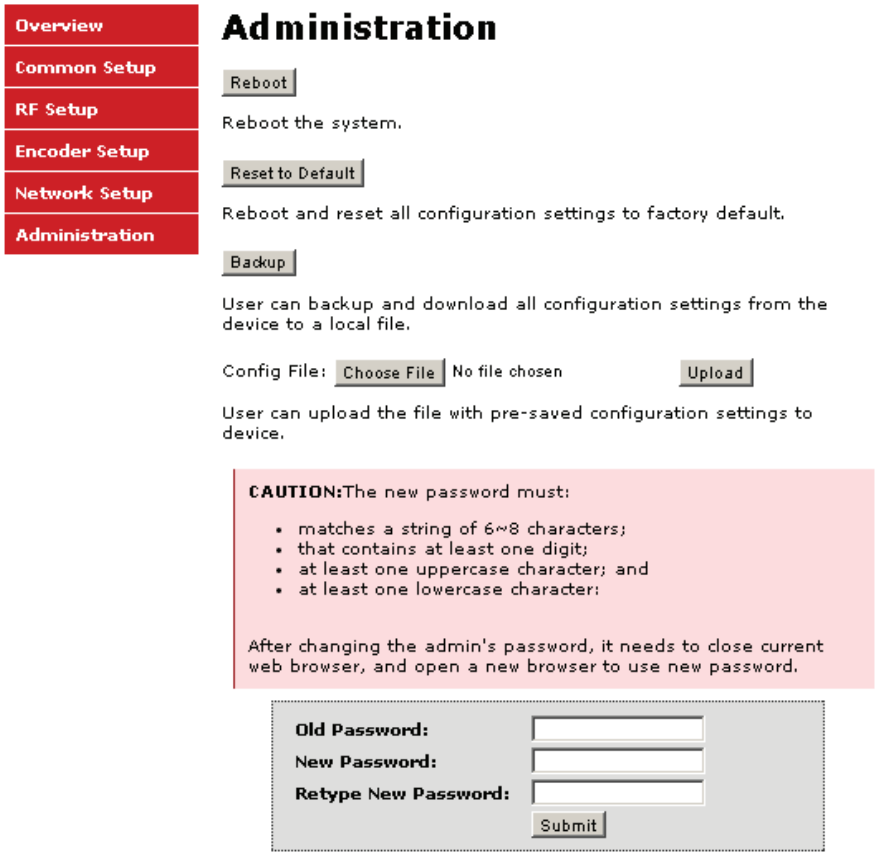
This Page allows you to configure the encoder common settings. After making any change, click “Save Config” to apply change.



STEP 8: Network Configuration



STEP 9: Administration



Saving your configuration files

We highly recommend you save your encoder configuration files. Simply Click the “Backup” button and the config files will be saved to your computer.

To upload a configuration file- simply click “Choose File” then locate the file you want to upload. Click “Upload Settings” to install the configuration files. This function is helpful to the installer when installing a large number of encoders in a single system.

We highly recommend saving the settings of your encoder.

A “config.cfg” file will be created. Locate the file My Computer> C Directory > Documents and Settings> User>My Documents>Downloads>configs.cfg.

digi-MOD HD-1600 Product Notes

ITEM	VALUE
Password	
Serial Number	
Installation Date	
Purchase Date	
Device Name	
Firmware Version	
Streaming Method	

Notes

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WARRANTY

Vcomm Pty Ltd states that the warrant that the customer can rely on is that provided by the manufacturer. In the event of any warranty claim please contact us and we will forward it to the manufacturer. The manufacturer will then determine the extent of their liability. This expressly negates, to the extent possible by Australian law, any warranty reliance on Vcomm Pty Ltd.

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