

Edision 07-06-0009

Edision HDMI Modulator Xtend Lite

USER MANUAL

1. Product Overview

The Edision HDMI Modulator Xtend Lite is a versatile single-channel HDMI to DVB-T MPEG4 Full High Definition modulator. It is designed to convert HDMI signals from various sources into a digital terrestrial DVB-T MPEG4 signal, allowing distribution over coaxial cable to multiple televisions. Its compact design and intuitive controls make it suitable for both horizontal and vertical installations.

Key features include an integrated HDMI-loop output for local monitoring, a USB port for quick configuration data transfer, and a FAST PRE-CONFIG function with 50 selectable IDs for easy setup in multi-unit installations. It supports IR control over coaxial cable with an optional accessory.

2. Package Contents

Please verify that all items listed below are included in your package:

- Edision HDMI Xtend Modulator
- IR Tx cable jack
- Universal 5V / 2.0A EU / UK Power Supply Unit
- User Guide (this manual)

Package includes



Modulator



Jack
to IR Tx
cable



User Guide



PSU 5V/2A
EU/UK universal



Image: Contents of the Edision HDMI Modulator Xtend Lite package, showing the modulator unit, IR Tx cable, and power adapter.



Image: The retail packaging for the Edision HDMI Modulator Xtend Lite, highlighting its features and contents.

3. Product Features

- HDMI-loop output for connecting to a local TV and viewing content.
- Optional IR CONTROL over COAX system (EDI-Rx) can be connected.
- Terrestrial digital signal RF mixing input.
- Input Signal: HDMI.
- Output Signal: up to FULL HIGH DEFINITION (1080i, up to 1080p @ 30FPS), terrestrial digital DVB-T signal, MPEG4.
- Aspect Ratio support: 16:9 wide screen, 4:3 letter box, 4:3 pan scan.
- Power source: Corded Electric.

4. Front Panel Overview

Front Panel



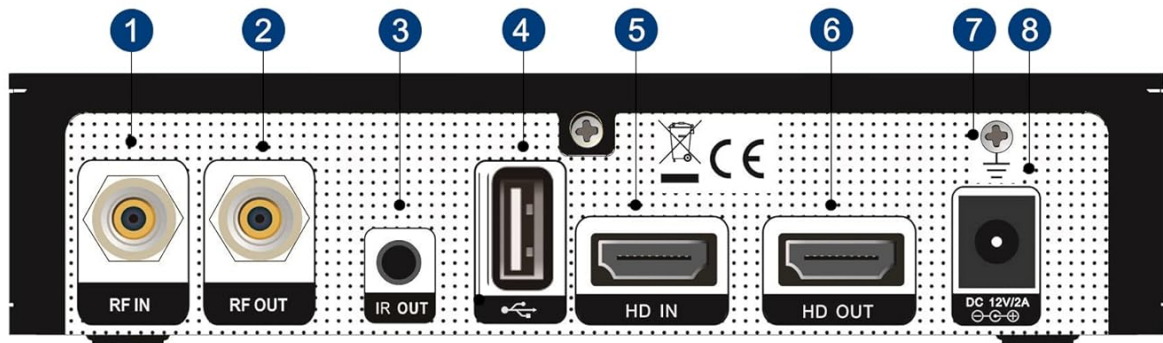
- | | |
|---------------------------------------------|---------------------------------------------------|
| 1 Lock button | 5 LED display, shows the RF channel name and Menu |
| 2 Menu/OK Button | 6 Power identification LED |
| 3 Left/Right Buttons for moving in the Menu | 7 Display lock identification LED |
| 4 Up/Down Buttons for moving in the Menu | 8 HDMI output & input signal identification LED |

Image: Front panel of the Edison HDMI Modulator Xtend Lite, showing buttons, LED display, and dimensions.

1. **Lock button:** Used to lock/unlock the front panel controls.
2. **Menu/OK Button:** Accesses the menu and confirms selections.
3. **Left/Right Buttons:** Navigates through menu options.
4. **Up/Down Buttons:** Navigates through menu options.
5. **LED display:** Shows the RF channel name and menu information.
6. **Power identification LED:** Indicates power status.
7. **Display lock identification LED:** Indicates if the display is locked.
8. **HDMI output & input signal identification LED:** Indicates HDMI signal presence.

5. Connections Overview

Connections



- | | |
|------------------------------------------------------------|----------------------------------------|
| 1 RF LOOP input: 50-2400 MHz | 5 HDMI input |
| 2 RF output Signal: Terrestrial DVB-T | 6 HDMI output |
| 3 IR OUT, infrared connection with the Jack to IR Tx cable | 7 Ground point |
| 4 USB port | 8 Connection for external power supply |

DVB-T

Image: Rear panel of the Edison HDMI Modulator Xtend Lite, showing all input and output ports.

1. **RF IN:** RF LOOP input (50-2400 MHz).
2. **RF OUT:** RF output Signal (Terrestrial DVB-T).
3. **IR OUT:** Infrared connection with the Jack to IR Tx cable.
4. **USB port:** For CONFIG DATA function (USB 2.0 HOST, Fat32 support).
5. **HD IN:** HDMI input.
6. **HD OUT:** HDMI output (HDMI-loop).
7. **Ground point:** For grounding the unit.
8. **DC 12V/2A:** Connection for external power supply.

6. Setup

Follow these steps to set up your Edison HDMI Modulator Xtend Lite:

1. **Connect Power:** Connect the provided 5V/2.0A power adapter to the DC 12V/2A port (8) on the rear panel and plug it into a power outlet. The Power identification LED (6) on the front panel should illuminate.
2. **Connect HDMI Source:** Connect your HDMI source (e.g., satellite receiver, camera, DVD player) to the HD IN port (5) using an HDMI cable.
3. **Connect RF Output:** Connect the RF OUT port (2) to your TV's antenna input or to your home's coaxial distribution system.
4. **Local TV Connection (Optional):** If you wish to view the content on a local TV, connect the HD OUT port (6) to an HDMI input on your local TV.

5. **IR Control (Optional):** If using the IR CONTROL over COAX system, connect the IR Tx cable jack to the IR OUT port (3).
6. **RF Input (Optional):** If you have an existing terrestrial digital signal you wish to mix, connect it to the RF IN port (1).

7. Operating Instructions

Once connected, the modulator will begin processing the HDMI input. Use the front panel buttons to navigate and configure settings.

- **Channel Configuration:** Press the MENU/OK button (2) to access the main menu. Use the Left/Right (3) and Up/Down (4) buttons to navigate through options such as output channel, frequency, and modulation parameters. Press MENU/OK to confirm selections.
- **FAST PRE-CONFIG:** The device comes with 50 pre-configured IDs. This feature allows for quick setup, especially when multiple modulators are used in the same installation. Refer to the on-screen menu for selecting these IDs.
- **CONFIG DATA Function:** For advanced configuration or to load specific settings, use the USB port (4). You can extract configuration data to a USB drive or upload new settings from a USB drive to the modulator. This function supports Fat32 formatted USB drives.
- **Front Panel Lock:** Use the Lock button (1) to prevent accidental changes to settings. The Display lock identification LED (7) will indicate the lock status.

8. Application Example

The diagram below illustrates a typical application scenario for the Edision HDMI Modulator Xtend Lite, demonstrating how it can distribute an HDMI source to multiple TVs via a DVB-T coaxial network.

Application example

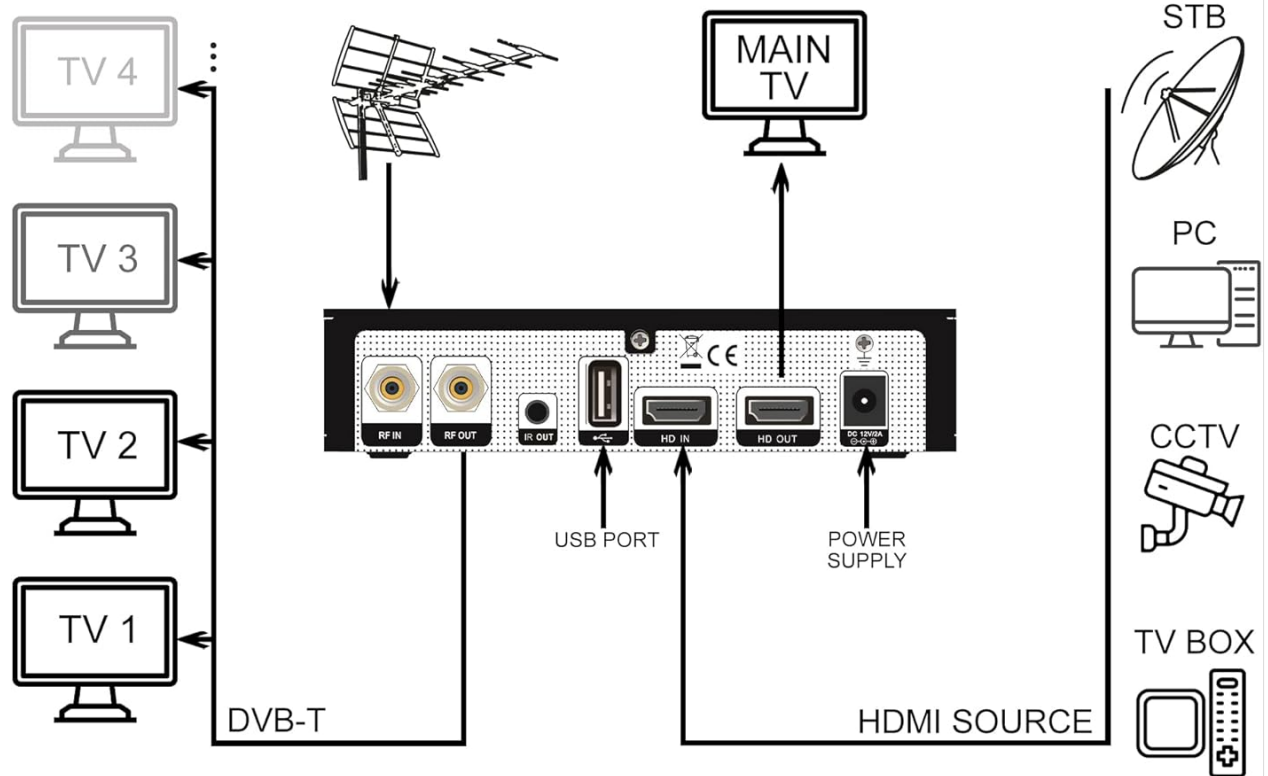


Image: Application example showing the modulator connecting an HDMI source (STB, PC, CCTV, TV Box) to a main TV via HDMI loop and distributing the signal to multiple TVs (TV1, TV2, TV3, TV4) via DVB-T coaxial cable, potentially mixing with an existing RF signal.

In this setup, an HDMI source (such as a Set-Top Box, PC, CCTV system, or TV Box) is connected to the modulator's HDMI input. The modulator then outputs the signal as a DVB-T channel via the RF OUT port, which can be connected to a coaxial distribution network to feed multiple televisions. An existing terrestrial RF signal can also be fed into the RF IN port to be mixed with the modulated HDMI signal. The HDMI LOOP OUT allows for local monitoring on a main TV.

9. Troubleshooting

• No Signal on TV:

- Ensure the modulator is powered on and the Power LED is lit.
- Verify the HDMI source is active and connected correctly to the HD IN port.
- Check the coaxial cable connection from RF OUT to your TV/distribution system.
- Perform a channel scan on your TV to find the new DVB-T channel.
- Ensure the output channel frequency on the modulator does not conflict with existing channels in your area.

• Poor Picture/Sound Quality:

- Check the quality of the HDMI input signal.
- Adjust the RF output level in the modulator's settings.
- Ensure proper impedance matching in your coaxial network.
- For advanced users, verify FEC (Forward Error Correction) and GI (Guard Interval) settings, which might require using the CONFIG DATA function via USB for precise adjustments.

- **Front Panel Buttons Unresponsive:**

- Check if the Lock button (1) is engaged. Press it to unlock the controls.

- **IR Control Not Working:**

- Ensure the IR Tx cable is securely connected to the IR OUT port (3).
- Verify the optional IR CONTROL over COAX system (EDI-Rx/Tx) is correctly installed and configured.

10. Specifications

Brand	Edision
Model Number	07-06-0009
Connections	HDMI, Coaxial, USB
Compatible Devices	Television
Input Signal	HDMI v1.4a
Output Signal	DVB-T MPEG4 (1080i, up to 1080p @ 30FPS)
Frequency Range	VHF (CH.5-12) & UHF (CH.21-69)
Output Level	Default 90 dBμV (adjustable ±6 dBμV to -14 dBμV)
MER	> 35dB at maximum RF output level
Symbol Rate	Up to 31.668 MBPS
Bandwidth	7MHz, 8MHz
Video Encoder	MPEG1, MPEG2 MP @ HL, MPEG4 SP @ L3 to ASP @ L5, MPEG4 AVC HP @ level4.1, MP@level4.1
Audio Encoder	MPEGI L1 / 2, MPEGII LII, AAC LC, HE-AAC v1 / v2 (2-CH)
Processor System	CPU 200MHz 32Bits RISC
Memory	DDRII 16bit 512Mbits (integrated) & NOR Flash 32Mbit
USB Type	USB 2.0 HOST, Fat32 support
Display	4-digit LED
Power Supply Input	100 ~ 240V AC
Power Supply Output	DC 5V / 2.0A
Power Consumption	10W maximum (normal operation)
Dimensions (LxWxH)	125 x 145 x 35 mm
Color	Black

11. Warranty and Support

This Edision HDMI Modulator Xtend Lite comes with **atwo (2) year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact your local Edision dealer or visit the official Edision website for contact information.