

HDMI Modulator single DVB-T

**High
Definition**



DVB T
TERRESTRIAL

USB
UNIVERSAL SERIAL BUS

HDMI
HIGH DEFINITION MULTIMEDIA INTERFACE

Full HD
1080

MPEG4

lte

User Manual

HDMI to DVB T Modulator

User Manual



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1. Rear Panel



1.RF OUT: RF output terminal. For mix with RF IN signal.

2.RF IN : connection of IN signal.

3.LTE switch: To switch 4G LTE signal Filter ON/OFF. “ON” > LTE signal is filtered. “OFF” > LTE signal NOT filtered.

4.USB : USB 2.0 , connect to USB for software upgrade or configuration data backup.

5.HDMI: HDMI Input signal.

6.DC 12V: For connection of an external 12V adapter.

2. Connection

HDMI Signal source IN to Modulator.

Modulated RF output.

3. Front panel



1. LOCK: (DOUBLE USE BUTTON): 1. locks the use of the buttons. "LOCK" led lights up when pressed 1 time for locking. To release lock state, press again.
2. also functions as "Delete" (Space) button while editing menu "Name".

2. MENU/OK: One time press: “MENU” button.

Two times press: “Confirm” button.

3. «  » Left : backward selection.

4. «  » Right: forward selection.





5. «  » Down: list down selection.

6. «  » Up: list up selection.

4. Operating instructions

4.1 Parameters Setup

4.1.1 Output channel Setup

Press “MENU/OK” button and the OLED display displays “Freq/CH_xx”. Press “”Up or “”Down button to select the desired output channel. If you do not want to setup other parameters, press “MENU/OK” button and on the display appears “Save config? Yes(*) No(). Press “MENU/OK” again to save the setting. If you want to setup other parameters also, please do not press this button. For more setup options, press “” (Left) or “” (Right) button to select other parameters. When all your settings are complete, press “MENU/OK” button two times to save the settings .

4.1.2 Setup Cons(tellation), FEC, FFT, Guard Interval, RF Level, Audio Bit Rate. Audio Format.

Press the “MENU/OK” button. Then use “◀“(Left) or “▶“(Right) button to select the desired setup item. Use “▲“(UP) or “▼“(DOWN) button to set the correct value. Press “MENU/OK” button two times to complete and save the setup.

4.1.3 Output program “Name” Setup

Press “MENU/OK” button. Then use “◀“(Left) or “▶“(Right) button to select “Name” option. Press “▲“(UP) and first character on left side will flicker. You can use “◀“(Left) or “▶“(Right) button to change the character. To stop editing, press “▲“(UP) button Or press “▼“(DOWN) button to edit another character. Use “LOCK” button to delete the flickering character. ‘LOCK’ button also functions as “Space” button. To end editing, press “MENU/OK” button two times and save the “Name” field that you edited. To select other parameters, press “▲“(UP) button to end “Name” editing function and use “◀“(Left) or “▶“(Right) button to choose other programming options.

4.1.4 LCN Setup, Network Name, Audio pid, Video pid, Pmt pid, Program num. Video Bit rate.

Press "MENU/OK" button. To select the desired option press "◀" (Left) or "▶" (Right). For example, edit LCN: Press "▲" (UP) button. then left side first character flickering. To change the number, use "◀" (Left) or "▶" (Right) button. To select next number to be edited, press "▼" (DOWN) button. To end editing, press "▲" (UP) button. To edit another item, press "◀" (Left) or "▶" (Right) button. Press "MENU/OK" button two [2] times to save configuration.

4.1.5 Turn off OLED display

Press "MENU/OK" button to enter setup. Use "◀" (Left) or "▶" (Right) button to select "Led off?" option. Press "▲" (UP) button" to turn off the oled display. Press "MENU/OK" button again to activate the oled display again.

4.1.6 Reset to Factory default values

Press "MENU/OK" button to enter setup. Use "◀" (Left) or "▶" (Right) button to select "Factory reset" to default values. Press "▲" (UP) button" to start reset to factory default values. The display will appear "Success!" when the procedure is completed.

4.1.7 Save configuration to USB.

Press "MENU/OK" button to enter setup menu. Use "◀"(Left) or "▶"(Right) button to select "Save to usb" option. Press "▲"(UP) button" to start saving process and then the display will appear "Success!" when the procedure is completed.

4.1.7 How to upgrade software

- 1: Copy the "jedi.img" file to the USB device.
- 2: POWER OFF the modulator.
- 3: Plug the usb device into USB port on the back of the device.
- 4: POWER ON the modulator.
- 5: When on the OLED display appears "Upgrade Yes(*) No()", press "MENU/OK" button to start upgrade process.

Upgrade procedure will finish after 10 seconds approximately.

WARNING! DO NOT power off the modulator while upgrading!! Damage to the device may occur !

If you do not want to upgrade software, press "▼"(DOWN) button to select "No (*)" and then press "MENU/OK" button to end upgrade submenu.

5. Specification of Hardware

Class	Sub class	Designation	Expected Features
Encoder	Processor	Processor frequency	Host CPU: 200MHZ 32Bits RISC Security Processor :200Mhz 32Bits Audio Processor:200MHZ 32Bits
	Memory	RAM	DDRII 16bit 512Mbitsx1 (Embedded)
		Flash	NOR Flash 32Mbit x 1
	Video	Video encoder	ISO/IEC 11172-2 MPEG1 ISO/IEC 13818-2 MPEG2 MP@HL ISO/IEC 14496 MPEG4 compliant Support SP@L3 to ASP@L5 ISO/IEC 14496-10 AVC, HP@level 4.1, MP@level 4.1 H.264 profile 0 JPEG base-line, progressive
		Aspect Ratio	16:9 wide screen, 4:3 letter box, 4:3 pan scan, support AFD(DTG, MingDTG)
		Resolution	1080i, up to 1080p@30FPS

	Audio	Audio encoder	MPEGI layer1/2, MPEGII Layer II AAC LC, HE-AAC v1/V2 (2-CH)
Modulati on		Output frequency range	174~233MHZ(VHF III) ,470 - 858 [MHz](UHF)
		Output impedance	50 [Ω]
		Input impedance (Loop to Output)	50 [Ω]
		Forward Error Correction (FEC)	1/2,2/3,3/4, 5/6, 7/8
		Guard Interval	1/4,1/8,1/16,1/32
		Constellations	QPSK,16QAM,64QAM
		RF Output Level	Default: 90 dB μ V Adjustable: 0 to -14 dB 0 to + 6 dB
		Band Wide	7MHZ(VHF),8MHZ(UHF)
		FFT	2K,8K
		Reed Solomon	202,188,T=8
		Symbol rate range	up to 31.668 MBPS
	MER	More than 35dB at Maximum RF Level output	

Rear Panel		RF Input (LOOP to Output)	Impedence:50 Ohm Input type: F-type female
		RF Output	Impedence:50 Ohm Output type: F-type female
		USB Connector (software upgrade)	Number: 1
		LTE(Long Term Evolution)Filtering switch	ON/OFF Cut Off Frequency: 790MHZ
		HDMI Input	Number: 1, High Definition Media Interface HDMI V1.4a
		USB Connector	Number: 1 Type: Host 2.0
		Power DC Input Connector	X1 DC(12V, 2A)
Front Panel	Display	Display	128x32 dots OLED Display (IIC or SPI communication protocol)
	LED	Power & work state LED	POWER/LOCKED/SIGNAL Indicator
	Buttons	Tact switch X6(UP/DOWN/ LEFT/RIGHT,MENU/ OK,LOCK	Set Output channel/FEC/ CONSTELLATION/FFT/ Channel Name etc.

Power Supply		Power supply unit type	Adapter Input:100~240V AC,Output:DC 12V/2.0A
		Power consumption in normal working mode	< 10W
Mechanical Design	Demension	164(W)X104(D)X41(H)mm	
	Material and structure	Metal cabinet and 2 layers PCB structure	With enough heat radiation holes on cabinet

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