

HDMI OVER IP Extender

AVLINK™



HDM-LNW



HDM-RNW

USER MANUAL HDM-ENW

Package Contents-

- 1x HDM-LNW and HDM-RNW Unit
- 1x user manual
- 2x Power adapter DC 12V with lock
- 4x screws
- 8x foot pads
- 1x IR receiver cable
- 1x IR blaster cable (Peak Wavelength 940nm)

Any thing missed, please contact with your vendor.

V1.1

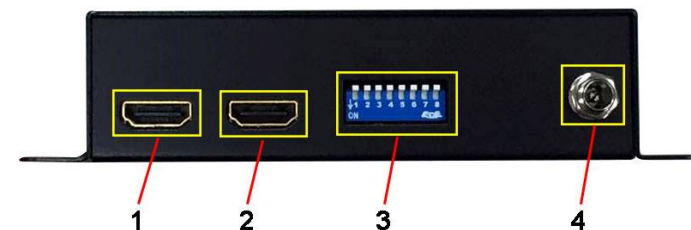
Features

- HDTV resolution up to 1080p@60.
- HDMI signal up to 100 meter on HDTV.
- Use CAT.5/5E/6 cable to install easily.
- Support RS-232.
- HDMI Compliant.
- HDCP Compliant.
- RS-232 Extender.
- Supports Web server system setup.

Specifications

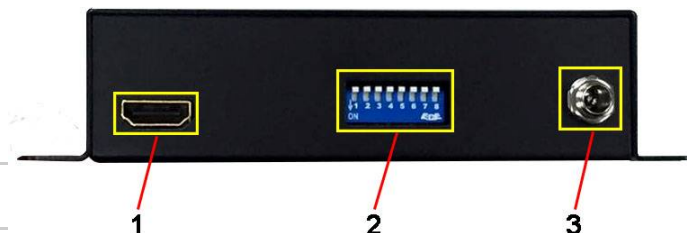
Function	HDM-LNW	HDM-RNW
HDMI Input Connector	1 (A-Type Female)	NONE
HDMI Output Connector	1 (A-Type Female)	
LED indicators	POWER	
LINK	RJ-45 Connector x 1	
IR IN	NONE	3.5φ Stereo Jack x 1
IR OUT	3.5φ Stereo Jack x 1	NONE
IR Carrier Frequency	20KHz ~ 60KHz	
BAUD RATE SETTING	3 PIN DIP SWITCH	
DIP SW	8 PIN DIP SWITCH	
Power Adapter (Min.)	DC 12V (LOCKING JACK)	
HDMI Output Max. Resolution	1080p@60 (8Bits)	1080P@60 (8Bits)
HDMI Output (Color Space)	YCbCr 4:4:4	RGB
Cat.5e Cable Distance	100 meters (Max.)	
RS-232 Connector	DB9 Female x 1	
Baud Rate	2400 up to 115200 bps; 8 data bits, 1 stop bit, no parity	
Housing	Metal	
Weight	338g	330g
Dimensions (LxWxH)	150x80x35mm	

FRONT VIEW HDM-LNW



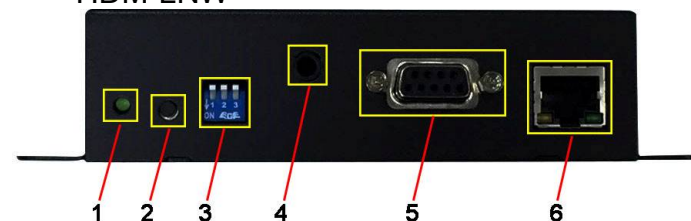
- 1x HDMI Output Connector (A-Type Female)
- 1x HDMI Input Connector (A-Type Female)
- 8 Pin DIP Switch
- Power jack (12V DC In)

HDM-RNW



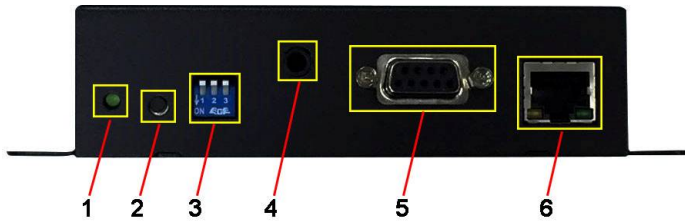
- 1x HDMI Output Connector (A-Type Female)
- 8 Pin DIP Switch
- Power jack (12V DC In)

REAR VIEW HDM-LNW



- Power LED
- System Reset
- Baud Rate Setting
- IR Out
- RS-232 (DB9 Female)
- Link (RJ-45 Connector)

HDM-RNW



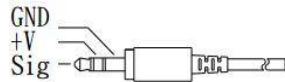
1. Power LED
2. System Reset
3. Baud Rate Setting
4. IR In
5. RS-232 (DB9 Female)
6. Link (RJ-45 Connector)

Installation

1. Turn off the HDMI source and HDMI display.
 2. Connect the HDMI cable between the HDMI source and the "HDMI IN" port of HDM-LNW.
 3. Connect the HDMI cable between the HDMI display and the "HDMI OUT" port of HDM-LNW / HDM-RNW.
 4. Connect the CAT.5/5e/6 cables between the HDM-LNW "LINK" port and the HDM-RNW "LINK" port of extender.
 5. Connect the power cord of HDM-LNW and HDM-RNW.
 5. Turn on the HDMI source and display.
- ※HDM-LNW ID and HDM-RNW ID must be the same.

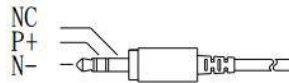
IR Receiver Cable Directions:

Put it into the HDM-RNW "IR IN" port and place the IR Receiver Cable, so that you can point to it easily with your IR remote controller.



IR Blaster Cable Directions:

Plug IR blaster cable plug into HDM-LNW "IR OUT" port, It sits in front of the DVD receiver's IR sensor, which is located on the front-panel.



DIP Switch Setting

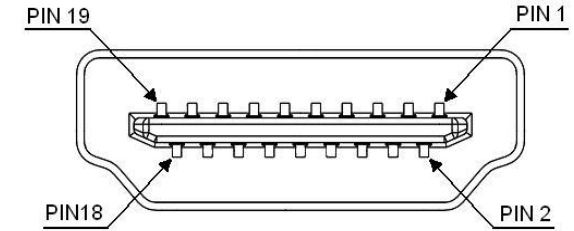
Buad Rate Setting

Buad Rate	PIN1	PIN2	PIN3
2400	OFF	OFF	OFF
4800	ON	OFF	OFF
9600	OFF	ON	OFF
19200	ON	ON	OFF
28800	OFF	OFF	ON
38400	ON	OFF	ON
57600	OFF	ON	ON
115200	ON	ON	ON

ID Setting

ID	PIN1	PIN2	PIN3	PIN4	PIN5	PIN6
0	OFF	OFF	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF	OFF	OFF
:	:	:	:	:	:	:
7	ON	ON	ON	OFF	OFF	OFF
:	:	:	:	:	:	:
63	ON	ON	ON	ON	ON	ON

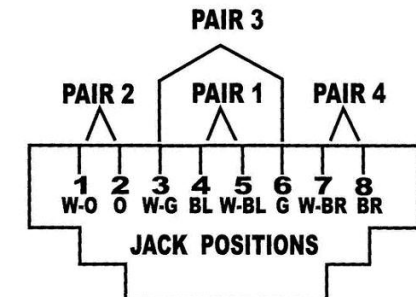
Technical Specifications Output Signal



Pin #	Signal	Pin #	Signal
1	TMDS Data 2+	11	TMDS Clock Shield
2	TMDS Data 2 Shield	12	TMDS Clock -
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved (N.C. on device)
5	TMDS Data 1 Shield	15	SCL
6	TMDS Data 1-	16	SDA
7	TMDS Data 0+	17	DDC/CEC Ground
8	TMDS Data 0 Shield	18	+5V Power
9	TMDS Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

Wiring Information & Coding

Conductor Identification	RJ-45 Pin Assignment	Color Code for Conductor
Pair 1	5	White-Blue
	4	Blue
Pair 2	1	White-Orange
	2	Orange
Pair 3	3	White-Green
	6	Green
Pair 4	7	White-Brown
	8	Brown

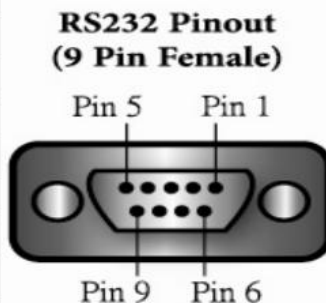


Support Resolution

Resolution	Frequency(Hz)
640x480	60
800x600	60
1024x768	60
1280x768	60
1280x800	60
1280x960	60
1280x1024	60
1360x768	60
1366x768	60
1440x900	60
1400x1050	60
1440x1050	60
1600x900	60
1680x1050	60
480i	60
480p	60
576i	50
576p	50
1080i	50/60
1080p	25/30/50/60
720p	50/60

RS232/D-Sub 9 Pin Definitions

Pin 1	N/C
Pin 2	TxD (Data Out)
Pin 3	RxD (Data In)
Pin 4	N/C
Pin 5	GND
Pin 6	N/C
Pin 7	N/C
Pin 8	N/C
Pin 9	N/C



Web server system setup

HDM-LNW (Server side)

Web setting address as below:

http://IP address (Default IP address TX board: 169.254.x.x when no DHCP server assign IP address).

username: admin

password: 123456

HDM-LNW web server support feature: video bit rate/resolution, DHCP/Fix IP, multicast group ID, update f/w.

File to Upgrade Firmware: XXX.PKG

File to Upgrade Encoder Firmware: XXX.bin

HDM-RNW (Client side)

Web setting address as below:

http://IP address (Default IP address RX board: 169.254.x.x when no DHCP server assign IP address).

HDM-LNW side web server support feature: DHCP/Fix IP, multicast group ID, update f/w.

File to Upgrade Firmware: XXX.PKG

Please don't power off or reset/reboot device while board f/w upgrade. HDM-ENW will reboot by self automatically when upgrade successful and see below info in web page.

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