Important Safety Instructions

- 1. Please read the user manual carefully before use this product, and keep these instructions.
- 2. Do not mix up transmitter and receiver before installation.
- 3. Channel of the transmitter(TX) must be different, otherwise, the system would be breakdown(including transmitter, receiver, IGMP switch etc.)
- 4. It is advised to set channel of transmitter before access to switch.
- 5. Follow all instructions.
- 6. This extender must be installed and operated within the limits of specified operating temperature and humidity.
- 7. Do not place objects on top of the unit.
- 8. Do not position the matrix extender near any heating source such as heater, radiator, or direct exposure to sun.
- 9. Prevent entering of water and moisture into the unit. If necessary, use dehumidifier to reduce humidity.
- 10. This product must be used with the IGMP switch.
- 11. Use DC5V/2A power supply only. Make sure the specification matched if using 3rd party DC adapters.

Product Introduction

This HDbitT HDMI video matrix over IP includes a transmitter unit(TX) and a receiver unit(RX). It allows for the distribution and switching of high definition video/audio signal by this product and off-the-shelf IGMP switch. It applied advanced HDbitT technology, the resolution supported is up to 4K×2K@30Hz ultra HD. It can also used in a point-to-point connection, the distance is up to 120 meters. It is widely applied in digital signage advertisement, control room, command centers, entertainment and exhibition center, safety monitoring system, etc.

Product Features

1. Apply advanced HDbitT over IP technology.

- 2. Resolution supported is up to 4K×2K@30Hz ultra HD.
- 3. Transmission distance is up to 120 meters via CAT6.
- 4. Support IR pass back function to control source device from RX location.
- 5. Plug and play.
- 6. Support scalable and flexible input-output matrix configuration, allows 100 inputs to infinite output.
- 7. Support computer control software to select and switch source device input.
- 8. Support to select and switch source device input from receiver via remote control and hard button.
- 9. Support APP control, user can scan, preview, build up their configuration by using a phone/tablet easily.

• Package Content

Transmitter unit ×1pc

cable x1pc



Receiver unit ×1pc



IR receiver extensio cable ×1pc



Remote control x1pc Wall-mount kit ×4pcs

• Installation Requirements

1. HDMI source devices: with HDMI OUTPUT interface, DVD, PS3.

STB. PC etc.

- 2. Display devices : With HDMI INPUT port, SDTV, HDTV, projector etc.
- Network cables :

UTP/STP CAT5/5E/6 network cables, which following the standard of IEEE-568B.

Transmission length: CAT5 80m/CAT5E 100m/CAT6 120m.

Panel Description



- 1) IR receiver window: remote control channel
- ② Power indicator
- ③ TX ID: Mark transmitter unit's channel as a number, indicator of the current TX ID number
- ④ DC5V power input
- ⑤ Data transmission indicator
- ⑥ RJ45 signal output
- ⑦ Connection indicator
- ③ IR blaster extension cable interface
- IDMI signal input
- RESET button

2. Receiver unit



RX ID: Mark receiver unit as a number, indicator of the current

- RX ID number
- ② IR receiver window: remote control channel
- ③ Power indicator
- ④ TX CONNECTED: Indicate the input channel as a number, and

- ⑤ DC5V power input
- ⑥ Data transmission indicator
- ⑦ RJ45 signal input
- ③ Connection indicator
- (9) IR receiver extension cable interface
- HDMI signal output
- I RESET button

Installation and Connection

1. How to make a CAT5/5E/6 network cable Follow the standard of IEEE-568B:



2. Connection Drawing 2.1 Matrix configuration



[NOTE] : The switch must support IGMP function









when the channel of receiver as same as the channel of transmitter, transmission connected

1. white and orange; 2. orange; 3. white and green; 4. blue; 5. white and blue; 6. green; 7. white and brown: 8. brown.

2.2 Point to point configuration

3. IR use auide 3.1 IR passback

IR blaster extension cable should plug into the IR-out port of TX (Transmitter) of this extender matrix, and the IR receiver extension cable should plug into the IR-in port of the RX (Receiver) of this matrix extender. The emitter of IR blaster should as close as possible to the IR receiver window of the signal source device. 3.2 IR remote control

Using the IR remote controller to set/select the channel of this HDMI video Matrix

4. APP control use quide

4.1 HDbitT Matrix Controller MODE--APP "Matrix controller" 4.1.1 Android User: Download the App "Matrix Controller" by your mobile phone from the website:

http://www.hdbitt.com/download-matrix/.

IOS User: Download the APP "Matrix Controller" from the APP Store 4.1.2 Firstly, connect the video matrix controller to the IGMP switch.

Then, connect mobile phone/tablet and the video matrix controller via hotspot"MATRIX" with each other(as figyre 1, the wifi password is 12345678). At this time, open the downloaded APP "matrix control, will enter to the interface as figure 2, and APP control starts.



4.1.3 APP function 4.1.3.1 Preview Click " play" button to preview the content of the source device.



4.1.3.2 Edit Click the frame under the TX/RX button to edit device name.



4.1.4 Push and slide Drag push button TX and slide to RX, to set up new connection.



Note: Please do not use more than one mobile phone/tablet to control the system simultaneously.

4.2 Router MODE--APP " Matrix Control Lite" 4.2.1 Android User: Download the APP "Matrix Control Lite" from

google play.

4.2.2 IOS User: Download the APP "Matrix Control Lite" from APP Store

4.2.3 Firstly, connect the router to the IGMP switch. Then, connect mobile phone and the router with each other, open the downloaded APP "Matrix Control Lite" will enter to the interface as figure 3, TX ID, RX ID. TX connected number can be re-set by this APP. also can edit device name for marking.

Device Scan Time: 5			scan	
Tx Device:		Rx Device:		
Name	TX ID	RX ID	Name	TX Connected



5. Button control

There is a "TX ID" on TX unit, and there are both "RX ID"

and "TX connected" on the RX unit Each of them consists of two Nixie tubes and two buttons (beside the Nixie tube), the left button controls the value of the left Nixie tube. and the right one to control the value of the right Nixie tube. The value of each Nixie tube is from 0 to 9, each button is pressed at a time, the number is added one value. For example, the existing value of TX ID is

"00", and press the left button once, also press the right button once, then the value of TX ID is changed to" 11". When the value of

"TX connected" on the RX unit is as same as the value of "TX ID" on the TX unit, a connection built between the TX and RX units. **Short press:** Press to set IGMP group and display the setted value. Product switches automatically to the corresponding IGMP group 5 seconds after the press.

Long press: Press and keep 3 seconds to reset the product.

6. Computer software control use guide

- 6.1 Access to network Connect your PC/computer with the off-the-shelf IGMP Ethernet switch via a single network cable
- 6.2 PC/computer setting

Change the PC/computer's IP to 192.168.1.xxx (xxx can be 0 to 255), which as same as the IP segment of TX unit and RX unit.

6.3 Web operation

Open application program "HDbitT E-Matrix Control center", it displays the interface as Figure 1(Download from the website: http://www.hdbitt.com/download-matrix/).

		Device scan page connected devic of those devices	e: allow you es and set co	to scan t onfigurat
erice: 0 Nume	72 10	RI ID	Fune	TX Connect
π_1	90	94	RE-TV41	60
π_2	06	10	RE_TV32	90
π_3	60	15	RI_TV37	77
Π_4	π	23	BI_TV60	60
TX/R	X's IP			Mod

Figure 1

IP setting

TX and RX have their own default IP address, TX's IP is 192.168.1.238, and RX's IP is 192.168.1.239. Generally, it is no need to change the device IP address, as the system can work normally even though multiple TX units and multiple RX units connected into the system with their default IP address.

If IP setting is really needed, please follow up the operation as Figure 2 (here make an example of TX's IP setting only, RX's setting is the same as TX's)

	Device Selection		
Tx Device: 4	TX_PC42		
y no	IP Setup		TX Connected
TX_1	IP: 192 . 168 . 1 . 238	32	90
π_2	Netmask: 255 , 255 , 255 , 0	Set IP , a byclickin	nd save g button
π_3	Gateway: 102 168 1 254	"Update	9″
π_4			π
Click button "TX se	etup" . Update		
pop up a dialog			

Figure 2 Device scanning and setting (here make an example of TX's setting only, RX's setting is same as TX's)

* Click button "Start Scan", the scanned result shows as Figure 3

Tx Device: 4			Rx Device: 4			
	Nune	TX ID	RX ID	Nane	TX Co	nnected
	TI_1	86	10	RI_TV32	90	
	TI_2	60	15	RX_TV37	86	
	п_з	90	94	RX-TV41	60	Scan res
	TI_4	77	23	RX_TV50	77	

Figure 3

* Device Name setting as Figure 4 Device Scan Page Pre edit mode Scan Setup Start Scan Device Scan Time: 3 Seconds Tx Device: 4 Nune TX Connected RX_TV32 90 TX 1 RX_TV37 OK Cande RX-TV41 60 TX 3

Update

RX TVS0

Select Mode:

Figure 4 * Device channel (TX ID) setting as Figure 5

TX 4

tz_setup rz_setup



Figure 5

Click button "Update", new configuration saved Pre-operation mode editing, show as Figure 6

Figure 6

Operation mode selection setting

Follow up Figure 7, Click button "Select Mode", to choose the mode needed.

Device Scan Time: 3	Seconds	
Tx Device: 0		- Chr I
Sune	TX ID	22
π_1	90	94
π_2	86	10
Π_3	60	15
Π_4	π	23
tz setup rz setup		

Figure 7





• FAQ

Q: TV display "Waiting for connection" on the right corner?

- A: 1) Please check if the cable is correct and the length is within the range this unit supported .
- 2) Please check and make sure receiver 's channel number is within transmitter's channel list.
- 3) Please check and make sure all of the transmitter's channel are different
- Q: TV display "Please check the transmitter input signal" ?
- A: 1) please check if there is a HDMI signal input of transmitter; 2) Try to connect the signal source directly to display device to see if there is signal output from source device, or change the signal source, HDMI wire and try again.
- O: Display is not fluent, not stable?
- A: 1) Please check and make sure the switch is with IGMP function. and the IGMP function is open.
- O: Black screen or no image on displays?
- A: 1) Cut off the input of source device, if TV displays "Please check the transmitter input signal" after about 10 seconds, please connect the source again, change and try another resolution.

Specification

Item	Specification
HDMI signal	HDMI1.4, compliant to HDCP
Network bandwidth	28Mbps
HDMI input resolution supported	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4Kx2K @24/25/30Hz
Audio format supported	L/R stereo audio
TMDS signal	0.7~1.2Vp-p
DDC signal	5Vp-p
Remote control	Support
IR passback	Supports 20~60KHz IR devices
APP control	Support APP control, user can scan, preview, build up their configuration by using a phone/tablet easily, OS system supports IOS and Android
Matrix configuration	Up to 100 source signals can be connected and switched to infinite output
Voltage/Current	5V/2A
Power consumption	TX≤6W;RX≤5W
Weight	TX: 320g ; RX: 310g
Dimensions(LxWxH)	164×107.6×23.6mm
Working temperature	0~60℃
Storage temperature	-20~70°C
Humidity	0~95%(no condensation)
Color	Black

Disclaimer

The product name and brand name may be registered trademark of related manufactures. [™] and [®] may be omitted on the user manual. The pictures in this user manual are just for reference. The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

Directive WEEE

This product is covered by the WEEE II Directive (Directive 2012/19 / EU). It should not be

- thrown in the trash or dumped. Substances in the product may be hazardous to human health
- or the environment. Disposal may be done by returning the product to your dealer or leaving it a collection point provided for this purpose.
- This product bears the CE mark which certifies its conformity with the directives LVD 2014/35/EU : EMC 2014/30/EU and ROHS 2011/63/EU. Compliance has been assessed in accordance with applicable standards in effect.

TECHNICAL SUPPORT (OUTSIDE FRANCE)

Technical self-service portal GIGAMEDIA:

http://support.gigamedia.net





NETWORKING EQUIPMENT

USER MANUAL





HDbitT HDMI Extender Matrix 4K 30 Hz

GGM HD0IP4K3MT



www.gigamedia.net



Configuration IP :

Les Rx et Tx ont leur propre adresse IP : Tx: 192.168.1.238 **Rx:** 192,168,1,239

En general, il n'est pas nécessaire de les modifier. Suivez les procédures suivantes afin de les modifier



Configuration et scan des peripheriques Tx (même chose pour les Rx)

				+
Device: 4		Rx Device: 4	_	
Nune	TI ID	RI ID	Nane	TX Connected
TT_1	86	10	RI_TV32	90
Π_ 2	60	15	RX_TV37	86
π_3	90	94	RX-TV41	60
TX_ 4	77	23	RI_TV50	77
		Résult	at du scan	-

Configuration du nom du periphérique:

	Change Name	<u> </u>	
Nane	-	Nune	TX Connected
π_1	TX 1	RX_TV32	90
Π_ 2		BX_TV37	86
π_ 3	OK Cande	RE-TV41	60
π_ 4		RX_TV60	π

Cliquez sur "Update" nouvelle configuration sauvegardée, voir image 6:

-		
Subs	11 19	81 13
π_	90	94
π_	85	10
π_	60	15
π_	π	23
	Indiquez le canal d'émis	sion

Configuration de l'ID du Tx:



Selection de mode: Cliquez sur "select mode" comme sur l'image 7:

Device Scun Time: 3	Seconds	
Device: 0		hr lev
Sun+	TI ID	82 13
π_	90	94
π_	86	10
π_	60	15
π_	π	23

Image 3

FAQ



RZ-TV41 RE_TV32 NEW MODE01 RE_TVOT OK Cande RI_TV50 anal afficher Select Node: NEX_MODEDD . Image 6





- R: Assurez vous que les longueurs de câble soient correctes.
- Assurez vous d'être sur les meme canaux.
- Assurez-vous que les Tx ne soient pas sur les memes canaux

Q: La TV affiche "Please check the transmitter input signal

- R: Verifiez que le Tx soit bien raccordé a une source HDMI.
- Essayez de raccoder directement la source HDMI sur la TV pour vérifier la source

Q: L'affichage n'est pas stable

R: • Verifiez que votre LAN gère l'IGMP

Q: L'affichage n'est pas stable

R: • Essayez avec différentes résolutions

Type HDMI	1.4 compatible HDCP
Bande passante	28 Mbps
Résolutions Supportées	480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz 4K, 2K @30Hz
Format audio	Stéréo
Signal TDMS	0.7-1.12Vp-р
Signal DDC	5Vp-p
Télécommande	Supportée
IR passback	Fréquence IR 20-60KHz
Contrôle APP	Se configure avec software Windows
Configuration matrice	Jusqu'à 100 sources et RX illimités
Alimentation	5V 2A
Consommation	6W (Ty) of 5W (Ry)
Poids	320 g chacun
Poids Dimensions	320 g chacun 164 x 107 x 24 mm
Poids Dimensions Température de fonctionnement	320 g chacun 164 x 107 x 24 mm 0 ~ 60°C
Poids Dimensions Température de fonctionnement Température de	320 g chacun 164 x 107 x 24 mm 0 ~ 60°C -20 ~ 70°C
Poids Dimensions Température de fonctionnement Température de stockage	320 g chacun 164 x 107 x 24 mm 0 ~ 60°C -20 ~ 70°C
Poids Dimensions Température de fonctionnement Température de stockage Humidité	320 g chacun 164 x 107 x 24 mm 0 ~ 60°C -20 ~ 70°C 0 ~ 95% (sans condensation)

Avertissement

Le nom du produit et le nom de la marque peuvent être des marques déposées de fabricants liés. ™ et ® peut être omis sur le manuel utilisateur. Les images dans ce manuel utilisateur sont juste pour référence.

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Directive DEEE



Ce produit entre dans le cadre de la directive DEEE II (Directive 2012/19/UE). Il ne doit pas être jeté à la poubelle ni mis en décharge. Les substances contenues dans le produit peuvent être dangereuse pour la santé humaine ou l'environnement. L'élimination peut s'effectuer en renvoyant le produit à votre revendeur ou en le déposant dans un lieu de collecte prévu à cet effet.

Ce produit porte le marquage CE qui atteste de sa conformité aux directives LVD 2014/35/UE ; CEM 2014/30/UE et RoHS 2011/65/UE. CC

La conformité a été évaluée selon les normes applicables en vigueur.

ASSISTANCE TECHNIQUE

Assistance technique GIGAMEDIA sur internet http://support.gigamedia.net

Assistance technique France GIGAMEDIA par téléphor 0899 250 013

(0,50€ TTC / min depuis un poste fixe) Du lundi au vendredi entre 09h-12h et 14h-17h







MANUEL UTILISATEUR





Emetteur Matrice HDMI 4K 30 Hz

GGM HD0IP4K3MT



www.gigamedia.net

Instructions de sécurité:

- Merci de lire ce manuel avant utilisation des produits
- Attention de ne pas melanger les Rx et les Tx avant l'installation
- Les canaux des Tx doivent etre differents
- Il est conseillé de configurer les canaux avant le raccordement au switch
- Installez le matériel dans un lieu conforme aux préconisations - Ne rien poser sur les produits
- Ne pas positionner les produits a proximité d'une source de chaleur.
- Ne pas utiliser dans un environnement humide
- Doit être raccordé a un switch gérant l'IGMP
- Utilisez une alimentation 5V 2A. assurez vous des spécifications si vous utilisez un adaptateur tierce.

- Matrice HD Bit T Rx ou Tx

Informations du produit

- A raccorder sur switch IGMP ou en point a point
- Résolution 4K 30 Hz max
- Distance jusqu'à 120M en point a point.
- Supporte l'emission / réception des IR
- Plug & Play
- Jusqu'à 100 Tx et Rx ilimité
- Controlé par un software

Contenu du carton:

Description des panneaux:



1 récepteur (Rx) ou 1 émetteur (Tx)

Récepteur IR (avec Rx) Emetteur IR (avec Tx)



Kit montage mural x2pcs

Prérequis d'installation:

- Source en HDMI
- Afficheur avec entrée HDMI
- Câble réseau CAT5E UTP Minimum en IEEE-568B
- Distance de transmission: CAT5e: 100M CAT6: 120M.

	1
Sec.	

Manuel utilisateur

Alimentations

(DC5V) x2pcs

ÎÎÎÎ

Vis

x8pcs

x1pc





1- Panneau de reception IR 2- Indicateur de mise sous tension 3- TX ID: identification de l'émetteur 4- Entrée alimentation 5- Indicateur de transmission de données 6- Sortie RJ45 7- Indicateur de connexion 8- Entrée extension IR 9- Sortie HDMI 10- Bouton RESET

Installation:

Installation:



Connexion en matrice:





2- Receveur (Rx)

1- RX ID: Identification du recepteur 2- Panneau de reception IR 3- Indicateur de mise sous tension 4- TX CONNECTED: Indique l'identification de l'émetteur d'entrée. 5- Entrée Alim 6- Indicateur de transmission de données 7- Entrée RJ45 8- Indicateur de connexion 9- Entrée Extention IR 10- Sortie HDMI 11- Bouton Reset







Utilisation des IR:

Brancher le récepteur IR sur le TX et l'émetteur sur le RX a proximité du panneau d'entrée IR de l'afficheur.