

OCEAN MATRIX®

UHD BT™ ASE

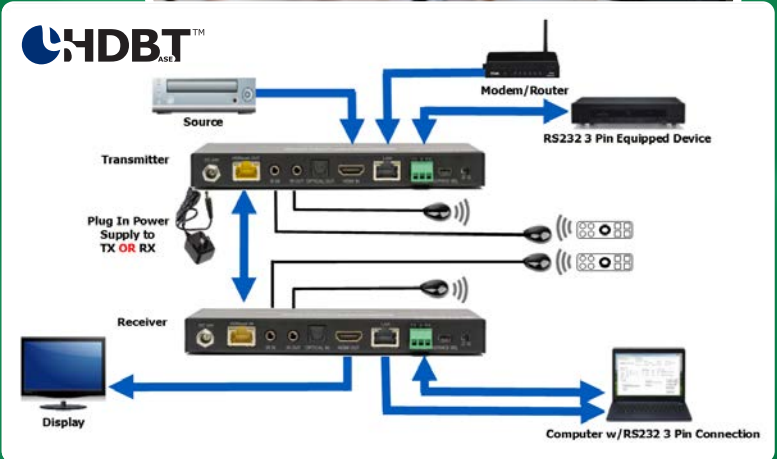


4K HDMI HDBaseT™ Extenders for Digital Connectivity



Signal Extension, Power & Control Over a Single Cat5e/6/6a/7 Cable

- ▶ **Reduce Cable Clutter** with a Single Category Cable Sending Multiple Signals at Once
- ▶ **Transmit Uncompressed UHD 4K Video** up to 328 feet and 1080p up to 500 feet
- ▶ **Add Multiple Transceivers** to Extend 4K up to 2000 feet and 1080p up to 3000 feet
- ▶ **Compatible** with all HDMI Formats
- ▶ **Supports Standard Audio Formats** including Dolby Digital, DTS, Dolby TrueHD, & DTS HD-Master Audio
- ▶ **Supports** 100Mb Ethernet
- ▶ **Transmit** up to 100W of Power
- ▶ **Power Over Cable** Simplifies Installation and Creates a Streamlined Setup
- ▶ **HDBaseT IEEE Standards** 1911.1, 1911.2, & 1911.3



Many Models with Multiple Features to Meet Your System Requirements

Available
OCEAN MATRIX®

OMX ID#	Product Type	PoH	PoC	Voltage (DC)	4K Distance (ft)	1080P Distance (ft)	ARC	CEC ByPass	Compliance	EDID	KVM	RS232	IR	Video BW (Gbps)	Video Resolution (up to)
01HMBT0001	SET	Uni		24	328	328	X	X	HDMI 2.0 b HDCP2.2/1.4			X	Bi	18	4K2K@50/60Hz 4:4:4
01HMBT0002	SET	Bi		24	131	230		X	HDMI 2.0 HDCP2.2/1.4			X	Bi	18	4K2K@50/60Hz 4:4:4
01HMBL0001	SET	Bi		24	131	230			HDMI 2.0a HDCP2.2			X	Bi	10.2	4K2K@30Hz 4:2:0
01HMHM0001	SET	Uni		12	131	230		X	HDMI 2.0 HDCP2.2/1.4			X	Bi	10.2	4K@30Hz HDR, 3D
01HMHM0002	SET		Bi	24	131	230			HDMI 2.0 HDCP2.2/1.4			X	Bi	18	4K2K@60Hz 4:4:4 HDR, 3D
01HMBT0003-T	Wall Plate TX	Bi		24	131	230			HDMI 2.0 HDCP2.2/1.4			X	Bi	18	4K2K@50/60Hz 4:4:4
01HMBT0003-R	Desktop RX	Bi		24	131	230		X	HDMI 2.0 HDCP2.2/1.4		X	X	Bi	18	4K2K@50/60Hz 4:4:4
01HMBT0004	SET		Bi	24	230	328			HDMI 1.4 HDCP2.2			X	Uni	10.2	4K2K@60Hz
01HMBT0005	SET		Bi	48	131	230	X	X	HDMI 1.4 HDCP 1.4	X			Bi	10.2	4K2K@30Hz 4:4:4
01HMBT0007	SET		Bi	24	131	230		X	HDMI 1.4 HDCP 2.2			X	Bi	10.2	4K2K@30Hz
01HMBT0008	SET	Uni		12	131	230			HDMI 1.4 HDCP 2.2	X	X	X		10.2	4K2K@60Hz 4:2:0, 3D
01HMBT0009	SET	Bi		24	131	230	X	X	HDMI 2.0 HDCP2.2/1.4	X		X	Bi	18	4K2K@60Hz 4:4:4, HDR
01HMBT0010	SET: Wall PI TX Desktop RX	Uni		24	328	328		X	HDMI 1.4 HDCP 2.2		X	X		10.2	4K2K@60Hz 4:2:0
01HMBT0011-T	TX		Uni	48	328	328	X		HDCP 2.2			X	Bi	10.2	4K2K@60Hz 4:2:0, 3D/DVI 1.0
01HMBT0011-R	RX		Uni	48	328	328	X		HDCP 2.2			X	Bi	10.2	4K2K@60Hz 4:2:0, 3D/DVI 1.0



01HMHM0001



01HMBT003-T



01HMBT0004

EDID Products Extended Display Identification Data

EDID is a handshake between a video source and a display where the display communicates its operational characteristics to the source so that the source can send out a video signal that is supported by the monitor. EDID eliminates manual configuration.



Ocean Matrix HDBaseT products with EDID capabilities:

01HMBT0005

01HMBT0008

01HMBT0009



01HMBT0009



01HMBT0008

KVM Products Keyboard, Video, Mouse

A KVM feature allows for control of a computer from one set of keyboard, video, and mouse through a USB port.

Ocean Matrix HDBaseT products with KVM capabilities:

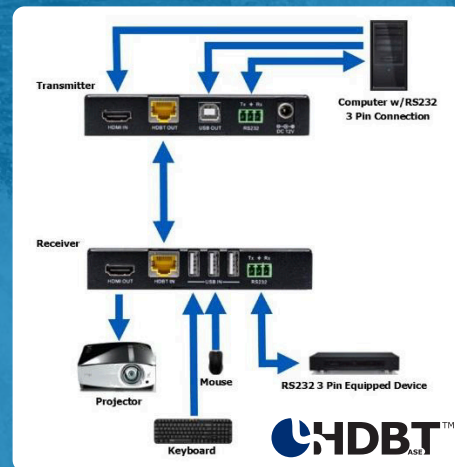
01HMBT0003-R

01HMBT0008

01HMBT0010



01HMBT0003-R



ARC Products Audio Return Control

According to the HDMI Organization, an ARC enabled HDMI device sends audio upstream to another ARC enabled device through a single HDMI cable. This eliminates the need for a separate S/PDIF audio connection.

Ocean Matrix HDBaseT products with ARC pass through:

01HMBT0001

01HMBT0011-T

01HMBT0005

01HMBT0011-R

01HMBT0009



01HMBT0011-T
01HMBT0011-R



Images by hdmi.org

CEC Products Consumer Electronics Control

CEC is part of the HDMI standard allowing for remote control commands to be passed through from CEC enabled devices to other CEC enabled devices within a system. CEC functions with compatible HDMI equipment and RS232-enabled devices. *NOTE: Not all manufacturers' CEC interfaces are fully compatible with one another.*

Ocean Matrix HDBaseT products with CEC pass through:

01HMBT0001

01HMBT0005

01HMBT0002

01HMBT0007

01HMHM0001

01HMBT0009

01HMBT0003-R

01HMBT0010



01HMBT0002



01HMBT0005



01HMBT0010

OCEAN MATRIX[®] COMPATIBILITY

Receivers → Transmitters ↓	01HMBT 0001	01HMBT 0002	01HMBL 0001	01HMHM 0001	01HMHM 0002	01HMBT 0003-R	01HMBT 0004	01HMBT 0005	01HMBT 0007	01HMBT 0008	01HMBT 0009	01HMBT 0010	01HMBT 0011-R
01HMBT0001	✓	C, BIR, RS	C, BIR, RS		C, BIR, RS	A, C, BIR, RS				A, C, BIR, RS		A, C, BIR, RS	
01HMBT0002	C, BIR, RS	✓	✓	✓	✓	C, BIR, RS				C, BIR, RS		C, RS	
01HMBL0001	BIR, RS	BIR, RS	✓	BIR, RS	RS	BIR, RS				BIR, RS			
01HMHM0001	C, BIR, RS	BIR, RS	✓	✓	✓	C, BIR, RS							
01HMHM0002	BIR, RS	BIR, RS	BIR, RS	BIR, RS	✓	BIR, RS	RS, UIR	BIR, RS	PRX	RS		BIR, RS	
01HMBT0003-T	BIR, RS	BIR, RS	✓		✓	BIR, RS						BIR, RS	
01HMBT0004					RS, UIR		✓	RS, UIR	RS, UIR	RS		RS, UIR	RS, UIR
01HMBT0005					RS, UIR		RS, UIR	✓		RS		RS	A, BIR
01HMBT0007							RS, UIR	✓	✓	RS		RS	
01HMBT0008			PRX, RS		RS, UIR		RS	E		✓		✓	RS
01HMBT0009	A, C, BIR, RS	BIR, RS	BIR, RS	C, BIR, RS	RS, UIR	C, BIR, RS		C, BIR, E, PRX	C, BIR, PRX, RS	E, RS	✓	C, RS	
01HMBT0010	C, RS	C, RS				C, K, RS	RS	C, RS	C, RS			✓	
01HMBT0011-T	✓	BIR, RS	BIR, RS		BIR, RS		RS, UIR	BIR	BIR, RS				✓

COMPATIBILITY

✓ **FULL**
All Features Supported

PARTIAL
Features Supported

A = ARC C = CEC E = EDID K = KVM RS = RS232
BIR = Bidirectional IR UIR = Unidirectional IR
PRX = Connect Power Supply to RX

What are PoH & PoC?

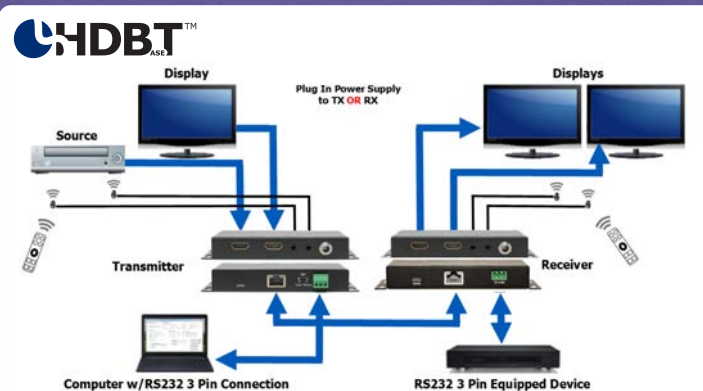
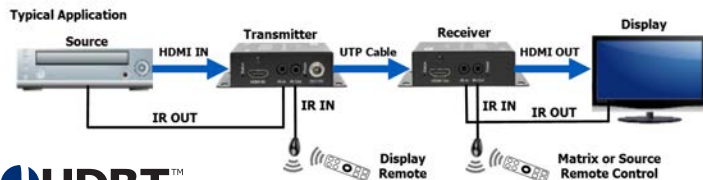
PoC: Power Over Coax Cable

- **Non Standardized**
- **Voltage Supply Set to Needs of Product or System**
- **Applies Power to the Line Directly without Detecting Device at the Remote End**

PoH: Power Over HDBaseT

- **Based on IEEE 802.3at (PoE Power over Ethernet) Standard**
- **Networked IP Enabled Devices**
- **Single Ethernet Cable Up to 328 Ft/100m**
- **Power Capacity up to 100W**

Typical Setups using Ocean Matrix HDBaseT Extenders





Catch the Wave.™

***Ocean Matrix is a manufacturer of
affordable and versatile interface solutions
for the Broadcast and Pro-AV industry.***

Our mission is to provide rugged, easy to use tools featuring the latest technology. The Ocean Matrix toolbox consists of distribution amplifiers, extenders, converters, hum eliminators and video switchers that are proven problem-solving devices. Explore our web site and discover which products you need to add to your toolbox.