4K100TPC



PRODUCT CODE: XTND4K100TPC



XTND4K100TPC-10092018

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IN THE BOX

1x XTND4K100TPC Transmitter	
1x XTND4K100TPC Receiver	
2x IR RX	
2x IR TX	
1x 24V/1A DC PSU	
4x Wall mounting brackets	

SYSTEM: XTND4K100TPC

A long-range HDMI 2.0 / HDBaseT 2.0 extender set - supports 18Gbps premium UHD/4K 60H2 4:4:4 data rates, with all current HDR formats inc. Dolby Vision®, HDR10 and HLG up to 100 metres, over one twisted pair Cat cable. The extender features useful audio return connectivity via HDMI-ARC, Optical or two-way stereo.

Control via two-way IR, RS232 and two 10/100 LAN data ports are also available on the receiver. Tipping Point Compression enables the transmission of 180bps content via HDBaseT 2.0 technology, with no human-perceivable difference in video quality. TPC can handle all HDR formats, including Dolby Vision, retaining all original HDR Meta and is compatible with all chroma subsampling and colour space options (4:4:4, 4:2:2, and 4:2:0).

Please fully read and adhere to the setup information and operational instructions contained within this installation manual.

SYSTEM FEATURES

HDMI® 2.0 input sources supported (with TPC active)		
18Gbps data rate throughout (up to 100m)		
Long-range mode allows for 1080p up to 150m		
Supports all resolutions up to and inc. Ultra HD 4K 60 4:4:4		
Supports all current High Dynamic Range (HDR) formats inc. Dolby Vision®		
Supports all current audio formats up to Dolby Atmos® and DTS:X®		
RX>TX audio return via Optical or HDMI-ARC to Optical on TX		
Bi-directional stereo transmission		
Bi-directional PoH - can be powered from either RX or TX.		
2x integrated 10/100 Ethernet LAN connections at RX		

XTND 4K100TPC TX / RX

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 "Long Range Switch": This Switch enables Long Range Mode" this mode disables 4K supports but increases the effective transmission distance of 1080p content to 150m
"HDBaseT output": Connect the CAT 5e/6 cabling run from the receiver to this port

3. "HDMI Input port": Connect a HDMI source e.g. a Blu-Rav plaver, with a HDMI cable

4. "Lan Port": Connect an active ethernet connection to this port to enable the dual ethernet ports on the receiver

5. "RS232 Port": Provides bi-directional RS232 between receiver and transmitter

6. "USB Port": This port is used to apply firmware updates

7. "Stereo (OUT)": Receive stereo audio from the receiver via 3.5mm jack cable

8. "Stereo (IN)": Send stereo audio to the receiver via 3.5mm jack cable

9. "Digital Out": Allows ARC extraction of display audio via optical cable

10. "IR (OUT)": Plug the supplied IR TX into this port

11. "IR (IN)": Plug the supplied IR RX into this port

12. "ARC Button": Press to enable support for ARC, ARC is only supported on the optical port

13. "DC24V": Connect the included 24V/1A power supply

14. "Long Range Switch": This Switch enables "Long Range Mode" this mode disables 4K supports but increases the effective transmission distance of 1080p content to 150m

15. "HDBaseT output": Connect the CAT 5e/6 cabling run from the receiver to this port

16. "HDMI Input port": Connect a HDMI source e.g. a Blu-Ray player, with a HDMI cable

17. "Dual Lan Ports": If an active ethernet connection is present on the Transmitter, these ports will provide a network connection

18. "RS232 Port": Provides bi-directional RS232 between receiver and transmitter

19. "USB Port": This port is used to apply firmware updates

20. "Stereo (OUT)": Receive stereo audio from the receiver via 3.5mm jack cable

21. "Stereo (IN)": Send stereo audio to the receiver via 3.5mm jack cable

22. "Digital Out": Allows ARC extraction of display audio via optical cable

23. "IR (OUT)": Plug the supplied IR TX into this port

24. "IR (IN)": Plug the supplied IR RX into this port

25. "ARC Button": Press to enable support for ARC

26. "DC24V": Connect the included 24V/1A power supply



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SETTING UP IR CONTROL

The XTND4K100TPC supports both backwards and forwards IR. This allows IR signals to be passed through the installed CAT cable either to the source device or the display.

SOURCE CONTROL VIA IR (BACKWARDS IR)

1. Plug IR Transmitter TX into the 3.5mm jack port labelled IR OUT on the XTND 4K (100m) Transmitter

2. Place IR Transmitter TX bud (small circular part) in front of the IR eye of the source (where you would normally point the remote to control the HDMI source device)

3. Plug IR Receiver RX into the 3.5mm jack port labelled IR IN on the XTND 4K (100m) Receiver

 Place IR Receiver at or near the display (position it close to where you would usually point your remote to turn your TV on or off)

DISPLAY CONTROL VIA IR (FORWARDS IR)

1. Plug IR Transmitter TX into the 3.5mm jack port labelled IR TX on the XTND 4K (100m) Receiver

Place IR Transmitter TX in front of the IR eye of the display (position it where you would usually point your remote to turn on or off your TV)

3. Plug IR Receiver RX into the 3.5mm jack port labelled IR RX on the XTND 4K (100m) Transmitter

4. Place IR Receiver in a visible uncovered position where it is able to receive remote signals



CABLES & WIRING

Notes on your network cabling

Currently you can use Cat5e, Cat6, Cat6e, Cat6a, Cat7 or Cat7a with HDA products. DO NOT USE COPPER CLAD ALUMINIUM (CCA) Cat 5/6/7 CABLE.

The baseline cable standard for HDanywhere systems is Cat5e. Greater distances and reliability can be achieved by using Cat6, or slightly better still with the Cat7, which have thicker copper cores and shielding for easier signal transfer.

Optimum performance

Whichever network cable type you choose, ensure that the main wiring architecture is 'solid core', not stranded 'patch' cabling. Patch cabling can be used for the last few metres of a run (say from a wallplate) but should be avoided over the longer runs as signal transfer over stranded cores is heavily reduced. The use of pre-made leads is not recommended unless you can be absolutely sure of their construction credentials (i.e. solid core 568B). For absolute optimum performance, use a single piece of Cat cable terminated directly at the transmitter and the receiver ends. Make sure to use the correct connector types i.e. RJ45 solid core crimp connectors.

Shielded cables

Unlike other systems, shielded FTP cable is not a stipulation. If however you preferred this type of cable please ensure compatible shielded accessories are used. Failure to terminate cable screen at all points can induce interference rather than eliminating it.

Patch panels and wall plates

If the patch panels are terminated correctly, there is minimal loss of distance, however the use of wallplates and patch panels has the potential to cause increased resistance on the cable, introducing pinch points for signal transmission, and could reduce advertised transmission lengths.

TIP - instead of using RJ45 wallplates, use brush plates instead to maintain the neat finish. A search for "brush plates" will yield many results.

Connection termination

Terminate the cabling using RJ45 connectors to the 568B wiring standard (shown below).



Notes on your HDMI cabling

HDANYWHERE recommends using suitably robust, good guality HDMI cables. It is not advised to use passive HDMI cables over 5 metres in length either on the inputs or the outputs of the matrix hub or display receivers.

In circumstances where HDMI cables longer than 5 metres are required, HDA recommends utilising an Active HDMI cable option, optical-fibre or similar.

SETUP

1. Power off all displays and your HDMI source device

2. Connect the unpowered HDMI source to the HDMI input on the XTND using suitably robust HDMI cabling options

3. Connect each display such as a HDTV or Projector to the HDMI output port on the XTND using suitably robust HDMI cabling options

4. Plug in the power for the XTND

5. Power on the HDMI source device followed by each display

6. At this point the displays should show the video and audio of the HDMI source device connected to the XTND

TX / RX form factor	Lightweight slender aluminium enclosure
Inputs / outputs	TX HDMI in / RJ45 HDBaseT out / RJ45 LAN (10/100) / 2x Stereo 3.5mm jacks (in/out) / Optical out / RS232 / 2x IR 3.5mm jack (in = to RX / out = from RX) RX RJ45 HDBaseT in / HDMI out / 2x RJ45 LAN (10/100) / 2x Stereo 3.5mm jacks (in/out) / Optical out / RS232 / 2x IR 3.5mm jack (in = to TX / out = from TX)
Transmission tech.	HDBaseT 2.0 Class C + TPC
Video bandwidth	594MHz clock / 18Gbps data
ESD protection	± 8kV (air-gap discharge) ± 4kV (contact discharge)
Control	Bi-directional IR, RS232, LAN + HDMI-CEC pass through.
Device / Package weight	176 / 1100 g
Dimensions (W/D/H)	127 / 110 / 17 mm (TX and RX)
Power	24V/1A DC screw type connector
Operating temperature	32°F to 104°F (0°C to 40°C)
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Relative humidity	20~90 % RH (non-condensing)
Power consumption	9.5W (max)
Guarantee	2 year guarantee

SPECIFICATIONS

XTND 4K100TPC

IMPORTANT INFORMATION

Terms and Policies, including General Data Protection Regulation (GDPR) and other Data Protection Laws.

During the setup process of this device, the HDA Pro (Installer) and End-User are required to agree to a set of terms, conditions, rules, policies and license agreements, including the HDANYWHERE Privacy Policy. These terms, notices and policies are, collectively, the "Agreements". By installing or using this MHUB, you agree to be bound by the Agreements.

EU Conformity

Hereby, HDANYWHERE declares that this HDMI connectivity device is in compliance with the essential requirements and other relevant provisions of the following Directives: 2006/95/EC (LVD Directive); 2004/108/EC (EMC Directive); 1999/5/EC (R&TTE Directive). The full text of the EU declaration of conformity is available in the compliance section at HDANYWHERE.com/legals

Recycling your device properly

In some areas, the disposal of certain electronic devices is regulated. Make sure you dispose of or recycle your device in accordance with your local laws and regulations.



HDANYWHERE LIMITED PRODUCT (2 YEAR) GUARANTEE

WHO WE ARE

 We are HD CONNECTIVITY LTD trading as HDANYWHERE ("HDA"), a limited company registered under number 06046737 in England and Wales with its registered offices at Unit 23 Link Business Centre, Link Way, Malvern, Worcestershire, WR14 1UQ.

OUR GUARANTEE TO YOU

 We, HDANYWHERE warrant to you, the end user [MG1] of the HDA hardware (the "Products") that on the date of delivery of the Products to you, and for a period of 3 years from that date of delivery, the Products shall:

(a) match any description that has been provided to you;

(b) be free from any significant defects in their design, the materials used to make them, and the way they are made;

 (c) be of satisfactory quality (within the meaning of the Consumer Rights Act 2015); and

(d) be fit for any purpose held out by us.

This 3 year period, or, if the period has been extending to 4 years in accordance with paragraph 3, will be the "Guarantee Period". We offer this guarantee to all our customers who are resident and have an address in Great Britain and Northern Ireland. [MC2]

EXTENDING YOUR GUARANTEE

3. On registering your Products with the HDA Cloud, the guarantee offered in paragraph 2 by us will automatically extend for a period of one year, provided that your registration takes place within 30 days from the date of delivery. The one year guarantee extension starts automatically from the date that the original 3 year guarantee ends.

HOW TO CLAIM ON YOUR GUARANTEE AND YOUR REMEDIES

 Subject to paragraphs 5 and 6 of this guarantee, Your sole remedies under Our guarantee to You are as follows:

(i)Up to 30 days: we will repair or replace your Products or provide you with a full refund of the price of the defective Products at your option.

(ii) Up to 6 Months: we will repair or replace your Products. If we are unable to repair or replace your Products we will provide you with a full refund of the price of the defective Products. (iii) Up to 3 (4) Years: we will repair or replace your Products. If we are unable to repair or replace your Products we will provide you with a partial refund of the price of the defective Products based upon the devaluation of the Products since the time of purchase.

5. In order to claim under the guarantee given to you in paragraph 2 you will need to:

(a) give us notice in writing of your intention to claim under the guarantee during the Guarantee Period, and do so within a reasonable time after finding that some or all of the Products do not comply with the guarantee set out in paragraph 2;

(b) show that the Products that you claim are defective, have been examined by a HDA Pro or other authorised or suitably qualified installer, and that they have[MG3] confirmed in writing that the suspected defect in the Products stems solely from a fault in the HDA hardware;

(c) give us a reasonable opportunity to examine the Products in question;

(d) provide us with an order number and a dated sales or delivery receipt from an HDA Distributor, HDA Pro or other authorised dealer, reseller or installer of the Products.

(e) obtain from us in advance of returning the Products a return merchandise authorisation and/or case number[MG4]; and

(f) (if asked to do so by us) return such Products to our place of business at our cost.

CIRCUMSTANCES WHERE YOUR GUARANTEE DOESN'T APPLY

6. We shall not be liable for the Products' failure to comply with the guarantee set out in paragraph 2 in any of the following events:

 (a) If you make any further use of the Products after giving us notice of an issue in accordance with paragraph 5;

(b) the defect arises because you failed to follow our oral or written instructions as to the storage, installation[MG5], use and maintenance of the Products;

(c) the defect arises as a result of your use of the Products with any other software or hardware that is not compatible with the Products;

 (d) the products are used by you for any commercial purpose, including rental or demonstrative purposes;

(e) you alter or repair the Products without the written consent of HDA;

(f) the defect arises as a result of an act of god, fair wear and tear, or your misuse, abuse, unreasonable use, wilful damage, negligence, or abnormal storage of the Products or by any other causes unrelated to defective hardware or manufacturing; (g) where the serial number has been altered, defaced or removed;

(h) where the warranty seal on the system has been altered, defaced or removed; or (i) where the Products differ from their description as a result of changes made to

ensure they comply with applicable statutory or regulatory requirements.

TRANSFERRING YOUR GUARANTEE TO SOMEONE ELSE

 [HDA will not accept any liability under such guarantee unless you are the original customer or can produce a letter or chain of letters from the original customer and subsequent customers (where appropriate) transferring the benefit of the guarantee to you.]

PRODUCTS THAT ARE NOT COVERED BY THIS GUARANTEE

8. This guarantee does not cover products sold and clearly marked "as is", "B-grade", or with faults. This guarantee does not apply to any system software that is preinstalled in the HDA hardware, or is subsequently provided via update or upgrade releases. Any and all HDA software is licensed to you under the terms of a separate end user licence agreement found here: [EULA Link]

HOW THIS GUARANTEE WORKS WITH OUR EULA

9. We may void this guarantee if we reasonably believe that the HDA system has been used in a manner that violates terms of our separate End User Licence Agreement (EULA) for the HDA software. You assume all-risk and liabilities associated with the use of third party products in conjunction with the Products.

YOUR STATUTORY RIGHTS

10. This guarantees is in addition to your statutory rights (including under the Consumer Rights Act) which are not affected by this guarantee

GENERAL TERMS OF THIS GUARANTEE

11. Except as provided in this guarantee, we shall have no liability to you in respect of the Products' failure to comply with the guarantee set out in paragraph 2.

12. We reserve the right to amend or withdraw this guarantee at any time although for the avoidance of doubt any guarantees that are in existence at such a time will be honoured.

13. These Conditions shall apply to any repaired or replacement Product supplied by us.

GUARANTEE CONTACT INFORMATION

To contact (support@hdanywhere.com) or call HDANYWHERE Technical Support (call charges will depend on your telephone provider. Please check with your operator for exact charges).

The team is available 9am - 5pm weekdays.

To help us handle your query promptly, please have your invoice number and model SKU and serial ready.

Please give us your feedback

We love to hear ideas for how we might improve our products and your experiences using them. If we can make something better, we will, at the earliest opportunity. Whether that be a software or hardware change. So don't keep it to yourself, let us know. And if your idea gets used - we will credit you publicly and send you a nice gift to say thanks!

HDANYWHERE.com/feedback

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