

BLUSTREAM 

Product Comparison Tables

02 – HDMI Extender Kits – HDBaseT™ & Non- HDBaseT™

| | CEX120B-KIT | EX40B-KIT | HEX70B-KIT | HEX70ED-KIT-V2 | HEX70CS-KIT | HEX100ARC-KIT-V2 | HEX100CS-KIT | HEX100HDVGA-KIT | HEX150CS-KIT |
|----------------|----------------------------|------------------------------|-----------------------------|-------------------------------------|--------------------------------|--|--------------------------------|---|--|
| Infrastructure | Coax RG6 / RG59 | Cat6 / 6a / 7 | Cat6 / 6a / 7 (recommended) | | | | | | |
| Protocol | Proprietary Non-HDBaseT | | HDBT | | HDBT - CSC | HDBT | HDBT - CSC | HDBT | HDBT - CSC Long Range |
| Max Resolution | 1080p | | 4K 60Hz 4:2:0 8-bit | | 4K 60Hz 4:4:4 (18Gbps) | 4K 60Hz 4:2:0 8-bit | 4K 60Hz 4:4:4 (18Gbps) | 4K 60Hz 4:2:0 8-bit | 4K 60Hz 4:4:4 (18Gbps) |
| 4K HDR | No | | | | HDR Support | No | HDR Support | No | HDR Support |
| HDMI / HDCP | HDMI1.4 / HDCP1.4 | | HDMI1.4 / HDCP2.2 | | HDMI2.0 / HDCP2.2 | HDMI1.4 / HDCP2.2 | HDMI2.0 / HDCP2.2 | HDMI1.4 / HDCP1.4 | HDMI2.0 / HDCP2.2 |
| AV Inputs | 1x HDMI | | | | | | | 1x HDMI 1x VGA | 1x HDMI |
| AV Outputs | 1x HDMI | 1x HDMI | 1x HDMI | 2x HDMI (1x HDMI Loop-Out on TX) | | | | 1x HDMI | 1x HDMI |
| Audio | HDMI pass-through | | | | Breakout on RX (coax & L/R) | HDMI Pass- through, ARC, Optical audio return | Breakout on RX (coax & L/R) | HDMI Pass- through, Audio with VGA, Breakout on RX | HDMI Pass- through, ARC, Optical audio return |
| Distance (max) | 120m | 40m at 1080p 50m at 1080i | 70m at 1080p 40m at 4K | | | 100m at 1080p 70m at 4K | | | 150m at 1080p 100m at 4K |
| IR Pass-thru | 2-way | | | | | | | | |
| Power | 2x PSU | | 1x PoH (bi-directional) | | | | | | |
| Other | n/a | | | RS-232 | | RS-232, 100BaseT Ethernet | RS-232 | | RS-232, 100BaseT Ethernet |

03 – Contractor & Essential HDBaseT™ Matrix Products

| | C44-KIT | HMXL44-KIT-V2 | HMXL44CS-KIT | HMXL66 | HMXL88-V2 |
|-----------------------|---|---|---|---|--|
| Infrastructure | Cat6 / 6a / 7 (recommended) | | | Cat5e / 6 / 6a / 7 (recommended) | Cat6 / 6a / 7 (recommended) |
| Protocol | HDBaseT | | HDBaseT – CSC | HDBaseT | |
| Max Resolution | 4K 60Hz 4:2:0 8-bit | | 4K 60Hz 4:4:4 8-bit (18Gbps) | 4K 60Hz 4:2:0 8-bit | |
| 4K HDR | No | | HDR Support | No | |
| HDMI / HDCP | HDMI1.4 / HDCP2.2 | | HDMI2.0 / HDCP2.2 | HDMI1.4 / HDCP1.4 | HDMI1.4 / HDCP2.2 |
| AV Inputs | 4x HDMI | | | 6x HDMI | 8x HDMI |
| AV Outputs | 1x HDMI 4x HDBaseT (1x simultaneous output) | 4x HDMI 4x HDBaseT (simultaneous outputs) | 1x HDMI 4x HDBaseT (1x scaled) (1x simultaneous output) | 2x HDMI 6x HDBaseT (2x simultaneous outputs) | 2x HDMI 6x HDBaseT (independent outputs) |
| Distance (max) | 70m at 1080p / 40m at 4K | | | | |
| Audio | Pass-through only | Analogue & S/PDIF zone / output breakout | | Pass-through only | |
| IR / RS-232 | 2-way IR | 2-way IR RS-232 to zone | | 2-way IR | |
| Power | 1x PSU - PoH to receivers | | | 2x PSU - PoH to receivers | |
| Matrix Control | IR / RS-232 / IP / Web-GUI / App / Front panel | | | | |
| Used with (receivers) | HEX70B-RX (4x supplied in kit) | HEX70ED-RX (x4 supplied in kit) | HEX70CS-RX (x4 supplied in kit) | HEX70B-RX (2-way IR) HEX70ED-RX (2-way IR & RS-232) sold separately | |
| Size | 1U rack mountable, supplied with rack ears | | | | |

04 – Platinum HDBaseT™ Matrix Products

| | PLA66L-V2 | PLA88L-V2 | PLA66ARC-V2 | PLA88ARC-V2 |
|-------------------------------------|--|---|--|---|
| Infrastructure | Cat6 / 6a / 7 - recommended | | | |
| Protocol | HDBaseT | | | |
| Max Resolution | 4K 60Hz 4:2:0 8-bit | | | |
| 4K HDR | No | | | |
| HDMI / HDCP | HDMI1.4 / HDCP2.2 | | | |
| AV Inputs | 5x HDMI 1x HDMI / HDBaseT (dual) | 6x HDMI 2x HDMI / HDBaseT (dual) | 5x HDMI 1x HDMI / HDBaseT (dual) | 6x HDMI 2x HDMI / HDBaseT (dual) |
| AV Outputs | 6x HDMI 6x HDBaseT (simultaneous outputs) | 8x HDMI 8x HDBaseT (simultaneous outputs) | 6x HDMI 6x HDBaseT (simultaneous outputs) | 8x HDMI 8x HDBaseT (simultaneous outputs) |
| Distance (max) | 70m at 1080p 40m at 4K | | 100m at 1080p 70m at 4K | |
| Audio | Analogue & S/PDIF zone / output breakout Analogue input Source breakout Lip-sync correction | | Analogue & S/PDIF zone / output breakout Analogue input Source breakout Lip-sync correction ARC (Audio Return Channel) | |
| IR Pass-through | 2-way | | | |
| Power | 1x IEC – internal power supply / PoH to connected transmitters & receivers | | | |
| Matrix Control | IR / RS-232 / IP / Web-GUI / App / Front panel | | | |
| Used with (TX / RX) sold separately | HEX70B-TX or RX (2-way IR) HEX70ED-TX-V2 or RX (2-way IR & RS-232) | | HEX100ARC-TX-V2 or RX (2-way IR, RS-232, Ethernet, ARC) HEX100HDVGA-TX or RX (2-way IR, RS-232, Audio Breakout) | |
| Size | 2U rack mountable, supplied with rack ears | | | |

05 – Custom Pro – Video Input Boards

| | PRO-IN2H | PRO-IN4H | PRO-IN2N2V | PRO-IN2HAB | PRO-IN4HAB |
|----------------|-------------------|----------|------------------------------|---------------------------|---------------------------|
| Board Type | Legacy | | 2 nd Generation | | |
| Infrastructure | HDMI | | HDMI / VGA | HDMI | |
| Max Resolution | 4K60 4:2:0 8-bit | | 4K60 4:4:4 WUXGA (1920x1200) | 4K60 4:4:4 8-bit (18Gbps) | |
| 4K HDR | No | | Yes | | |
| HDMI / HDCP | HDMI1.4 / HDCP2.2 | | HDMI2.0 / HDCP2.2 | | |
| AV Inputs | 2x HDMI | 4x HDMI | 2x HDMI 2x VGA | 2x HDMI | 4x HDMI |
| Audio | -/- | | 2x 3.5mm stereo (VGA) | 2x stereo source breakout | 4x stereo source breakout |

06 – Custom Pro – Video Output Boards

| | PRO-OUT2H | PRO-OUT4H | PRO-OUT2TL | PRO-OUT4TL | PRO-OUT4TLS | PRO-OUT2H-V2 | PRO-OUT4H-V2 | PRO-OUT4HTCS | PRO-OUT4TCS | PRO-OUT2TCS | PRO-OUT4TLS-V2 | PRO-OUT4TL-V2 | PRO-OUT2TL-V2 |
|------------------|-------------------|-----------|---|------------|----------------------------------|----------------------------|--------------|----------------------------------|-------------|-------------|----------------------------------|---------------|---------------|
| Board Type | Legacy | | | | | 2 nd Generation | | | | | | | |
| Protocol | HDMI | | HDBaseT | | | HDMI | | HDBaseT - CSC | | | | | |
| Max Resolution | 4K60 4:2:0 8-bit | | | | | 4K60 4:4:4 8-bit (18Gbps) | | | | | | | |
| 4K HDR | No | | | | | Yes | | HDR Support | | | | | |
| HDMI / HDCP | HDMI1.4 / HDCP2.2 | | | | | HDMI2.0 / HDCP2.2 | | | | | | | |
| AV Outputs | 2x HDMI | 4x HDMI | 2x HDBT | 4x HDBT | 4x HDMI 4x HDBT (sim'eous) | 2x HDMI | 4x HDMI | 4x HDMI 4x HDBT (sim'eous) | 4x HDBT | 2x HDBT | 4x HDMI 4x HDBT (sim'eous) | 4x HDBT | 2x HDBT |
| Distance (max) | -/- | | 70m at 1080p 40m at 4K | | | -/- | | 100m at 1080p 70m at 4K | | | 70m at 1080p 40m at 4K | | |
| Used with (RX's) | -/- | | HEX70B-RX (sold separately) HEX70ED-RX (sold separately) | | | -/- | | HEX100CS-RX (sold separately) | | | HEX70CS-RX (sold separately) | | |

07 – Custom Pro – Legacy Pre-Configured Matrix Products – 4K60 4:2:0

| | PRO48HBT70 | PRO88HBT70 | PRO88HDMI |
|-----------------------------------|--|---|-----------|
| Board Type | Legacy | | |
| Infrastructure | Cat6 / 6a / 7 (recommended) | | HDMI |
| Protocol | HDBaseT | | -/- |
| Max Resolution | 4K 60Hz 4:2:0 8-bit | | |
| 4K HDR | No | | |
| HDMI / HDCP | HDMI1.4 / HDCP2.2 | | |
| AV Inputs | 4x HDMI | 8x HDMI | |
| AV Outputs | 8x HDBaseT | 8x HDMI 8x HDBaseT (simultaneous outputs) | 8x HDMI |
| Distance (max) | 70m at 1080p 40m at 4K | | n/a |
| Audio | Analogue & S/PDIF zone / output breakout Analogue input | | |
| IR Pass-through | 2-way | | |
| Power | 1x PSU / PoH to receivers | | 1x PSU |
| Matrix Control | IR / RS-232 / IP / Web-GUI / App / Front panel | | |
| Used with (RX) sold separately | HEX70B-RX (2-way IR) HEX70ED-RX (2-way IR & RS-232) | | n/a |
| Size | 2U rack mountable, supplied with rack ears | | |

08 – Custom Pro – 2nd Generation Pre-Configured Matrix Products – 4K60 4:4:4

| | PRO48HBT70CS | PRO88HBT70CS | PRO88HBT100CS | PRO4V4H8HBT70 | PRO88HDMI-V2 |
|-----------------------------------|--|--|---|---------------------------|----------------|
| Board Type | 2 nd Generation | | | | |
| Infrastructure | Cat6 / 6a / 7 (recommended) | | | | HDMI |
| Protocol | HDBaseT – CSC | | HDBaseT – CSC | HDBaseT – CSC | -/- |
| Max Resolution | 4K 60Hz 4:4:4 (18Gbps) | | | | |
| 4K HDR | HDR Support | | | | Yes |
| HDMI / HDCP | HDMI2.0 / HDCP2.2 | | | | |
| AV Inputs | 4x HDMI | 8x HDMI | | 4x HDMI 4x VGA | 8x HDMI |
| AV Outputs | 8x HDBaseT | 4x HDMI 8x HDBaseT (simultaneous outputs) | 4x HDMI 8x HDBaseT (simultaneous outputs) | | 8x HDMI |
| Distance (max) | 70m at 1080p 40m at 4K | | 100m at 1080p 70m at 4K | 70m at 1080p 40m at 4K | n/a |
| Audio | Analogue input | Analogue & S/PDIF zone / output breakout Analogue input | | | Analogue input |
| IR Pass-through | 2-way | | | | 2-way |
| Power | 1x PSU / PoH to receivers | | | | 1x PSU |
| Matrix Control | IR / RS-232 / IP / Web-GUI / App / Front panel | | | | |
| Used with (RX) sold separately | HEX70CS-RX | | HEX100CS-RX | HEX70CS-RX | -/- |
| Size | 2U rack mountable, supplied with rack ears | | | | |

09 – Multicast – Transmitters & Receivers

| | IP100UHD-TX (transmitter) | IP100UHD-RX (receiver) | IP200UHD-TX (transmitter) | IP200UHD-RX (receiver) |
|----------------|--|---|---|--|
| Infrastructure | Cat5e / 6 / 6a / 7 (IP infrastructure) | | | |
| Protocol | Proprietary, 1Gb LAN requirement | | | |
| Max Resolution | 4K 60Hz 4:2:0 8-bit 4K 24/30Hz 4:2:2 10-bit | 4K 24/30Hz 4:2:0 10-bit | 4K 60Hz 4:2:0 8-bit 4K 24/30Hz 4:2:2 10-bit | 4K 24/30Hz 4:2:0 10-bit |
| 4K HDR | HDR Support | | | |
| HDMI / HDCP | HDMI1.4 / HDCP2.2 | | | |
| Video Inputs | 1x HDMI | -/- | 1x HDMI | -/- |
| Video Outputs | -/- | 1x HDMI 1x Loop RJ45 (to daisy chain receivers) | 1x HDMI | 1x HDMI 1x Loop RJ45 (to daisy chain receivers) |
| USB2.0 | -/- | | 1x USB2.0 – Type B 1x Micro USB – for update only | 2x USB2.0 – Type A 1x Micro USB – for update only |
| Distance (max) | 100m – all supported resolutions | | | |
| Audio | Analogue audio input (3.5mm) – embedding ability | Analogue audio breakout (2x RCA) | Analogue audio breakout (2x RCA) Analogue audio input (3.5mm) | Analogue audio breakout (2x RCA) |
| EDID / Scaling | Advanced EDID Management EDID Copy functionality | Scaling to 4K30 max Video wall capabilities (up to 16x16) | Advanced EDID Management EDID Copy functionality | Scaling to 4K30 max Video wall capabilities (up to 16x16) |
| Power | PoE (from LAN Switch) – 24V / 9W (approx. per unit) | | | |
| Control | 2-way IR (with AI2.0 software) RS-232 Pass-through CM100 Interface (3 rd party control) | 2-way IR (with AI2.0 software) Multicast RX to TX (source) switching RS-232 Pass-through CM100 Interface (3 rd party control) | 2-way IR (with AI2.0 software) RS-232 Pass-through ACM200 Interface (3 rd party control) | 2-way IR (with AI2.0 software) Multicast RX to TX (source) switching RS-232 Pass-through ACM200 Interface (3 rd party control) |
| Configuration | AI2.0 Software iOS / Android App when used with ACM200 – coming 2019 Manual set-up (no software required – limited features available) | | | |

10 – Multicast – Control Units

| | ACM200 | CM100 | IP-BRIDGE |
|----------------------|--|--|--|
| IP Connections | 1x Multicast LAN - RJ45 (PoE) 1x Control Network - RJ45 | | 1x Multicast Connection (USB to RJ45 adaptor - supplied) 1x Control Network – RJ45 |
| Other Control Inputs | 1x Phoenix (3-pin) – RS-232 1x IR input (3.5mm jack) 1x GPIO – reserved for future use | 1x Phoenix (3-pin) – RS-232 1x IR input (3.5mm jack) | -/- |
| Power | PoE Powered (5V connection if no PoE available) | | 5V USB Power (PSU and cable supplied) |
| Features | Control of Blustream Multicast IP system via 3 rd party control system Enables password protection of system Hosts App for configuration & control | Control of Blustream Multicast IP system via 3 rd party control system | Control of Blustream Multicast IP system via 3 rd party control system Drag and Drop TV (free App required) |

11 – Multi-Format Presentation Switches

| | MFP62 | MFP72 | MFP112 |
|---------------------------------------|---|---|--|
| Infrastructure | HDMI, DisplayPort, USB-C, VGA | HDMI / VGA / Analogue | Cat5e / 6 / 6a / 7 |
| Protocol | -/- | | HDBaseT – Class A |
| Max Resolution | 4K 60Hz 4:4:4 | 4K 60Hz 4:2:0 8-bit / 4K 24/30Hz 4:2:2 10-bit / WUXGA (1920x1200) | |
| 4K HDR | No | | |
| HDMI / HDCP | HDMI2.0 / HDCP2.2 | HDMI1.4 / HDCP1.4 | |
| AV Inputs | 3x HDMI 1x DisplayPort 1x USB-C 1x VGA | 4x HDMI 1x VGA 1x Component / 1x Composite | 4x HDMI 4x VGA 1x HDBaseT 1x Component / 1x Composite |
| AV Outputs | 2x HDMI (simultaneous) | 2x HDMI (switchable or simultaneous) | 1x HDMI 1x HDBaseT (switchable or simultaneous) |
| Distance | -/- | | 100m at 1080p / 70m at 4K |
| Audio | Analogue & S/PDIF breakout w. line level volume control MIC input – 48V / Line | Analogue & S/PDIF breakout w. line level volume control Analogue input | |
| Adv. EDID Mgmt | Yes | | |
| Power | 1x PSU | | 1x PSU (PoH to transmitter / receiver) |
| Switch Control | IR / RS-232 / IP / Front Panel | IR / RS-232 / Front panel | IR / RS-232 / IP / Front panel |
| Used with (receivers) sold separately | n/a | | HEX70B-RX (2-way IR) HEX70ED-RX (2-way IR & RS-232) |
| Size | 1U shelf sitting | | 1U rack mountable, supplied with rack ears |

12 – HDMI Matrix Products

| | CMX42AB | CMX44AB | MX44AB-V2 | MX88ED | CMX88AB |
|-----------------|--|---------|--|---------------------------|--|
| Max Resolution | 4K60 4:4:4 8-bit (18Gbps) | | | 4K60 4:2:0 8-bit | 4K60 4:4:4 8-bit (18Gbps) |
| 4K HDR | Yes | | | No | Yes |
| HDMI / HDCP | HDMI2.0 / HDCP2.2 | | | HDMI1.4 / HDCP1.4 | HDMI2.0 / HDCP2.2 |
| AV Inputs | 4x HDMI | | 4x HDMI | 8x HDMI | |
| AV Outputs | 2x HDMI | 4x HDMI | 4x HDMI | 8x HDMI | |
| Audio | Analogue & S/PDIF zone / output breakout | | Analogue & S/PDIF breakout Analogue input | -/- | Analogue & S/PDIF zone / output breakout |
| IR Pass-through | Discreet IR Source Control | | | -/- | |
| Power | 1x PSU | | | | |
| Matrix Control | IR / RS-232 / Front Panel | | IR / RS-232 / IP / Front Panel / App | IR / RS-232 / Front Panel | IR / RS-232 / IP / Front Panel / App |
| Size | 1U shelf sitting / wall mounted | | 1U rack mountable, supplied with rack ears | | |

13 – HDMI Switchers & Splitters

| | SW21AB-V2 | SW41AB-V2 | SP12AB-V2 | SP14-V2 | SP14AB-V2 | SP18 |
|----------------|--|--|----------------------------|---------|----------------------------|---------|
| Type | HDMI Switch | | HDMI Splitters | | | |
| Max Resolution | 4K60 4:4:4 8-bit (18Gbps) | | 4K60 4:4:4 8-bit (18Gbps) | | | |
| 4K HDR | Yes | | Yes | | | |
| HDMI / HDCP | HDMI2.0 / HDCP2.2 | | HDMI2.0 / HDCP2.2 | | | |
| AV Inputs | 2x HDMI | 4x HDMI | 1x HDMI | | | |
| AV Outputs | 1x HDMI | 1x HDMI | 2x HDMI | 4x HDMI | | 8x HDMI |
| Audio | Analogue & S/PDIF zone / output breakout | | Analogue & S/PDIF breakout | -/- | Analogue & S/PDIF breakout | -/- |
| Adv. EDID Mgmt | Yes | | | | | |
| Power | 1x PSU | | | | | |
| Control | IR / Front Panel | IR / RS-232 / Front Panel Auto Switching | -/- | | | |

14 – HDMI Video Resolution Scalers & Dolby Downmixing Product

| | SC11HD-V2 | SC12SP-V2 | HD12DB |
|--------------------------|---|---|--|
| Protocol | HDMI | | |
| HDMI / HDCP | HDMI2.0 / HDCP2.2 | | |
| Video Inputs | 1x HDMI | | |
| Video Outputs | 1x HDMI | 2x HDMI | |
| Audio | HDMI Pass-through (all known HDMI formats) – no DSP Audio breakout (Analogue Stereo & Coaxial Digital) – no DSP Audio embedding (2ch) | | HDMI Pass-through (all known HDMI formats) Audio breakout (Analogue Stereo & Coaxial Digital) Digital Sound Processing (DSP) |
| EDID Management | Yes | | |
| Maximum Input Resolution | 3840x2160 @50/60Hz 4:2:0 10-bit (HDR) | 3840x2160 @50/60Hz 4:4:4 8-bit – 18Gbps | |
| Scaled output options | 1080p only frame rate always equals input (fixed) | 1080p or 4K Will downscale to 4Kxx 4:2:0 where display doesn't support 4:4:4 Frame rate always equals input | 720p, 1080p or 4K Will downscale to 4Kxx 4:2:0 where display doesn't support 4:4:4 Frame rate always equals input |

15 – Product Comparison Tables

You're one step closer!

Thank you for completing this section on the overview of the features provided by Blustream products. Please download the comparison charts PDF to complete this course.

Course code: **CLP4.0**