



LUXr[®]
Electronics

Presenter[™] Products



3 SKUs are all you need

To replace all interfaces, scalars, switchers, splitters and matrixes, big or small



Why you need it:

- If you are using interfaces, scalars, switchers, splitters, matrix switchers of any size and scalars, you need the Presenter products

Features and benefits:

- Revolutionary products to replace the centralized switching and distribution
- 1 transmitter (Tx) SKU and 1 receiver (Rx) SKU (optional Node) does it all; much simplified inventory control, system design and installation; see system diagrams
- Completely scalable; you can add more Tx or Rx boxes on the fly for expansion
- Only 1 Cat6 cable needed to connect the adjacent Presenter Tx or Rx; no more heavy clusters of cables; very easy cable pull and termination
- HDMI 2.0 4k 24 Hz, 32 audio channels, 1536 kHz audio sample rates, 21:9 aspect ratio, dynamic AV sync, CEC extensions, 3D, deep color compliance
- Compatible with all signal formats, VGA/audio, HDMI, DisplayPort (150 models)
- Built-in scalar for mixed signal formats and resolutions in a system (150 models)
- No compression; full 18 Gbps bandwidth; virtually no propagation delays
- “Show Me” control button on every Tx box gives every user the simple control; no other control system needed
- Additional control devices can be inserted anywhere in the chain via RS-232

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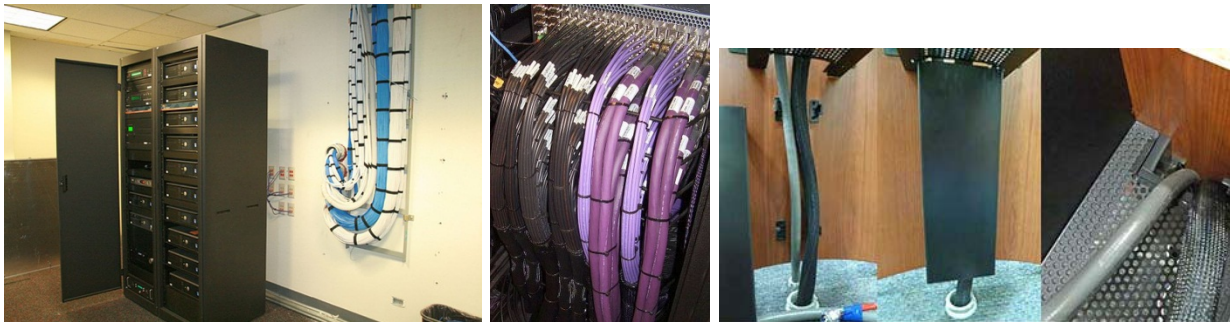
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- One controller connected to one Presenter can control all Luxi Presenters in the chain and all other devices connected to Luxi Presenters via RS-232
- Ethernet port on every Presenter for convenient system wide internet access
- Sophisticated yet easy to use automatic system mapping and control software
- Signals can be transmitted up to 1000 m (3300') with multiple daisy-chained devices up to 33 m (110') each span
- Extenders to extend the distance for each span when needed
- Node to connect multiple chains to form large matrix systems
- RJ45 connectors with standard EIA 568B pinout for max compatibility
- Remote power capability
- Rack mountable, under table mountable, above projector mountable metal enclosures

Comparison 1:



In traditional systems, cable installations are very difficult



In Presenter systems, there's only one Cat6 cable at any point of the system (in and out from the yellow connectors); no more centralized switchers!



Comparison 2



In traditional systems, there are thousands of models with hundreds of I/O sizes and tens of signal formats you need to stock to fit various applications

| 4 | 8 | 12 | 15 | 16 | 18 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 4x4 | 8x4 | 12x4 | 15x15 | 16x4 | 18x18 | 20x4 | 24x4 | 28x4 | 32x4 | 36x4 | 40x4 | 44x4 | 48x4 | 52x4 | 56x4 | 60x4 | 64x32 |
| 4x8 | 8x8 | 12x8 | | 16x8 | | 20x8 | 24x8 | 28x8 | 32x8 | 36x8 | 40x8 | 44x8 | 48x8 | 52x8 | 56x8 | | 64x48 |
| 4x16 | 8x16 | 12x12 | | 16x12 | | 20x12 | 24x12 | 28x12 | 32x12 | 36x12 | 40x12 | 44x12 | 48x12 | 52x12 | | | 64x64 |
| 4x20 | 8x20 | 12x16 | | 16x16 | | 20x16 | 24x16 | 28x16 | 32x16 | 36x16 | 40x16 | 44x16 | 48x16 | | | | |
| 4x24 | 8x24 | 12x20 | | 16x20 | | 20x20 | 24x20 | 28x20 | 32x20 | | | | 48x32 | | | | |
| 4x28 | 8x28 | 12x24 | | 16x24 | | 20x24 | 24x24 | 28x24 | 32x24 | | | | 48x48 | | | | |
| 4x32 | 8x32 | 12x28 | | 16x28 | | 20x28 | 24x28 | 28x28 | 32x28 | | | | 48x64 | | | | |
| 4x36 | 8x36 | 12x32 | | 16x32 | | 20x32 | 24x32 | 28x32 | 32x32 | | | | | | | | |
| 4x40 | 8x40 | 12x36 | | 16x36 | | | | | 32x48 | | | | | | | | |
| 4x44 | 8x44 | 12x40 | | 16x40 | | | | | 32x64 | | | | | | | | |
| 4x48 | 8x48 | 12x44 | | 16x44 | | | | | | | | | | | | | |
| 4x52 | 8x52 | 12x48 | | 16x48 | | | | | | | | | | | | | |
| 4x56 | 8x56 | 12x52 | | | | | | | | | | | | | | | |
| 4x60 | | | | | | | | | | | | | | | | | |

| Description | Bandwidth | IO | Model Number |
|---|-----------|-----------|-----------------|
| Audio Out | | | |
| DSP 8ch Stereo Audio with RCA, DVC | 1 | Waveshare | AUS-PL-2000-10P |
| FGA | | | FGP27-0000-00P |
| Audio In | | | |
| 8ch Digital Audio, TOSLINK, 8ch CP-15 | 2 | Waveshare | AUS-CP-2000-01T |
| FGA | | | FGP40-0000-00T |
| Composite Video (CVBS) | | | |
| LT 8ch Composite Video, Stereo | 50 | 1 | Waveshare |
| FGA | | | FGP27-0000-11S |
| 8ch Composite Video, Stereo, DVC, 8ch CP-15 | 50 | 2 | Waveshare |
| FGA | | | FGP40-0000-11T |
| 8ch DV, 8ch CP-15 | 2 | Waveshare | AUS-CP-2000-000 |
| FGA | | | FGP40-0000-100 |
| Component Video (C-Video) | | | |
| Caplio 8ch Y/C + Stereo over Cat5 + 8ch 15 HD, 15 + Stereo, CP-20A | 4 | Waveshare | AUS-8C-0000-010 |
| FGA | | | FGP40-0000-010 |
| Caplio 8ch Y/C + Stereo Input 8 Y/C + Stereo on Cat5/Cable, 8ch CP-15 | 2 | Waveshare | AUS-CP-2000-010 |
| FGA | | | FGP40-0000-010 |
| HDMI | | | |
| 8ch, HDCM Digital Video | 2 | Waveshare | AUS-CP-2000-020 |
| FGA | | | FGP40-0000-020 |
| Display, Y/C | | | |
| LT 8ch 2-Video 4-pin DVI, Stereo | 50 | 1 | Waveshare |
| FGA | | | FGP27-0000-015 |
| 8ch Y/C (BNC), 8ch CP-15 | 50 | 2 | Waveshare |
| FGA | | | FGP40-0000-015 |
| 8ch Y/C (BNC), Stereo, DVC, 8ch CP-15 | 50 | 2 | Waveshare |
| FGA | | | FGP40-0000-017 |
| Component Video (C-Video) | | | |
| LT 8ch HDVC/Component RCA Video, RCA Stereo | 300 | 2 | Waveshare |
| FGA | | | FGP27-0000-043 |
| LT 8ch HDVC/Component Video, Stereo ST | 300 | 2 | Waveshare |
| FGA | | | FGP27-0000-045 |
| Component Video (C-Video) | | | |
| 8ch HDVC/Component Video, Coaxial Digital Audio, 8ch CP-15 | 300 | 2 | Waveshare |
| FGA | | | FGP40-0000-048 |
| RGBHV (BNC) | | | |
| SD 8ch, RGBHV (BNC), 500 MHz, CP | 500 | 3 | Waveshare |
| FGA | | | FGP27-0000-050 |
| SD 8ch, RGBHV (BNC), 500 MHz, Stereo, DVC, CP | 500 | 3 | Waveshare |
| FGA | | | FGP27-0000-052 |
| RGBHV (BNC) | | | |
| LT 8ch RGBHV HD 15, Stereo 2T | 300 | 1 | Waveshare |
| FGA | | | FGP27-0000-044 |
| HDMI (DVI-D) | | | |
| 8ch HD DVI, 8ch CP-15 | 2 | Waveshare | AUS-CP-2000-100 |
| FGA | | | FGP40-0000-100 |
| 8ch SD DVI, 8ch CP-15 | 2 | Waveshare | AUS-CP-2000-000 |
| FGA | | | FGP40-0000-000 |
| 8ch SD DVI, Stereo, DVC, 8ch CP-15 | 2 | Waveshare | AUS-CP-2000-002 |
| FGA | | | FGP40-0000-002 |



In Presenter systems, these models are all you need for any systems



Comparison 3



In traditional conference room systems, you need to run a bundle of VGA cables into the floor and to the switcher, you need control systems, scalers to convert VGA or HDMI, and the system is not expandable



In Presenter conference rooms, you only need to run one Cat6 cable between Tx boxes, and one Cat6 cable to the projector; the Show Me button can replace the control system; VGA, HDMI and DP are all working together and the system is scalable



Luxi Presenter™ Products Summary

| Series | | 100s | | | | | | 300s | | | | Shared by 300s & 600s | | 600s | | | |
|---|-------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|--------------------------|-----------|-----------|-----------|-----------|-----------|
| Model | | TPR-110CR | RPR-110CR | TPR-150CR | RPR-150CR | EPR-100CR | NPR-144CR | TPR-310CR | RPR-310CR | TPR-350CR | RPR-350CR | EPR-300CR | NPR-344CR | TPR-610CR | RPR-610CR | TPR-650CR | RPR-650CR |
| Part Number | | 74-017-01 | 74-020-01 | 74-018-01 | 74-021-01 | 74-019-01 | 74-022-01 | 74-023-01 | 74-026-01 | 74-024-01 | 74-027-01 | 74-025-01 | 74-028-01 | 74-029-01 | 74-031-01 | 74-030-01 | 74-032-01 |
| Function | Transmitter | ✓ | | ✓ | | | | ✓ | | ✓ | | | | ✓ | | ✓ | |
| | Receiver | | ✓ | | ✓ | | | | ✓ | | ✓ | | | | ✓ | | ✓ |
| | Extender | | | | | ✓ | | | | | | ✓ | | | | | |
| | Node | | | | | | ✓ | | | | | ✓ | | | | | |
| Signal Inputs | HDMI | ✓ | | ✓ | | | | ✓ | | ✓ | | | ✓ | | | ✓ | |
| | VGA/Audio | | | ✓ | | | | | | ✓ | | | | | | ✓ | |
| | DisplayPort | | | ✓ | | | | | | ✓ | | | | | | ✓ | |
| Signal Outputs | HDMI | | ✓ | | ✓ | | | | ✓ | | ✓ | | | ✓ | | | ✓ |
| | VGA/Audio | | | | ✓ | | | | | | ✓ | | | | | ✓ | ✓ |
| Built-in High Quality Scaler | | | | ✓ | ✓ | | | | | ✓ | ✓ | | | | | ✓ | ✓ |
| Automatic Input Switching | | | | ✓ | | | | | | ✓ | | | | | | ✓ | ✓ |
| HDCP Compliant | | Yes | | | | | | | | | | | | | | | |
| EDID Management | | Yes | | | | | | | | | | | | | | | |
| Number of Chain Inputs | | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 |
| Number of Chain Outputs | | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 |
| Max total data rate per cable | | 18 Gbps | | | | | | | | | | | | | | | |
| Chain Cable | | Single Cat6 or Cat5 or Cat7 cable | | | | | | | | | | | | | | | |
| Max Distance (720p) | Each Span | 33 m (110') | | | | | | 15 m (50') | | | | | | | | | |
| | Total Chain (*1) | 1000 m (3300') | | | | | | | | | | | | | | | |
| Number of Simultaneous Signal Feeds (*2) (*3) | Without a Node | 1 | 1 | 1 | 1 | 1 | | 3 | 3 | 3 | 3 | 3/6 | | 6 | 6 | 6 | 6 |
| | With One Node | 4 | 4 | 4 | 4 | 4 | 4 | 12 | 12 | 12 | 12 | 12 | 12/24 | 24 | 24 | 24 | 24 |
| With Multiple Nodes | | Unlimited | | | | | | | | | | | | | | | |
| Bi-directional Audio | | Yes | | | | | | | | | | | | | | | |
| Signal Compression | | No | | | | | | | | | | | | | | | |
| Propagation Delay (*4) | | No | | | | | | | | | | | | | | | |
| RS-232 Controls | Local Device | Yes | | | | | | | | | | | | | | | |
| | Remote Device | Yes | | | | | | | | | | | | | | | |
| | 3rd Party Device | Yes | | | | | | | | | | | | | | | |
| Show Me Button | Front Panel | ✓ | | ✓ | | | | ✓ | | ✓ | | | | ✓ | | ✓ | |
| | Remote Port | ✓ | | ✓ | | | | ✓ | | ✓ | | | | ✓ | | ✓ | |
| Power over Cat6 (*5) | | Yes | | | | | | | | | | | | | | | |
| Ethernet Hub | | Yes | | | | | | | | | | | | | | | |
| Rack Mountable | | Yes | | | | | | | | | | | | | | | |
| Replacing Traditional Products of Any I/O Sizes | Interfaces/Baluns | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| | Switchers | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| Any I/O Sizes | Splitters | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| | Matrix Switchers | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| Scalers | | | | ✓ | ✓ | | | | | ✓ | ✓ | | | | | ✓ | ✓ |

Green color marks the shipping products

Notes

(*1) The max total chain distance could be limited by the memory allocated for registering the device IDs

(*2) The number of simultaneous signal feeds only represents the number of signals can be selected at a given time; it does not limit how many sources and displays on that chain.

In baluns, switchers, splitters and scalers applications, by definition only one signal is selected at a time no matter how big the system is.

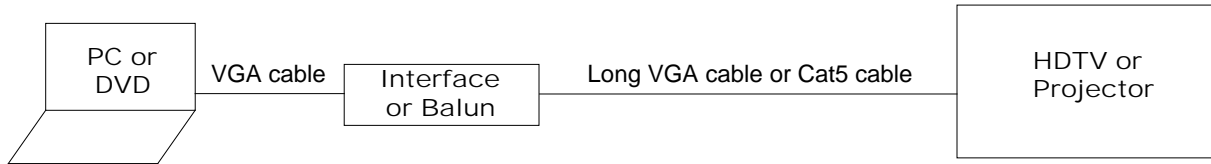
In matrix applications, if the number of sources is greater than the number of allowed feeds, only a portion of sources can be selected at a time; if the number of displays is greater than the number of allowed feeds, all displays will still have pictures, just some share the same pictures.

(*3) The max number of sources and displays could be limited by the memory allocated for registering the device IDs.

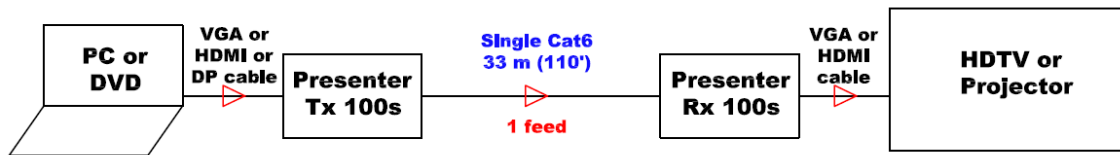
(*4) The propagation delay time is virtually zero; there's delay caused by the light speed and the IC gate speed, but no compression memory delay.

(*5) The max number of devices can be remotely powered depends on the power capacity of the external power supply and the power consumption of each Presenter devices. A Luxi power supply can power up to four 110 devices or two 150 devices.

- Traditional interface or baluns system diagram

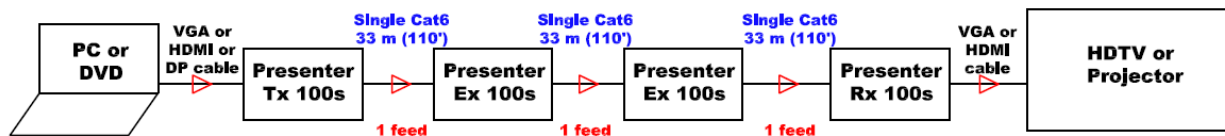


- Presenter Tx and Rx system as interfaces, baluns or scalers



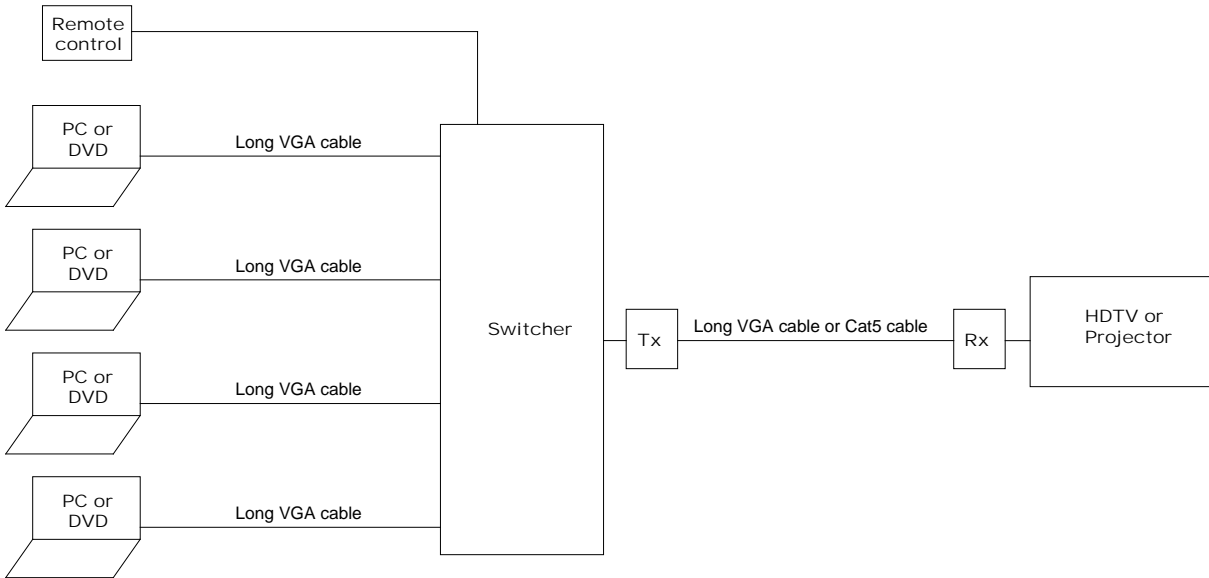
Presenter Tx and Rx as Interfaces, Baluns or Scalers

- Presenter daisy-chained Tx's and Rx's for very long distance transmissions

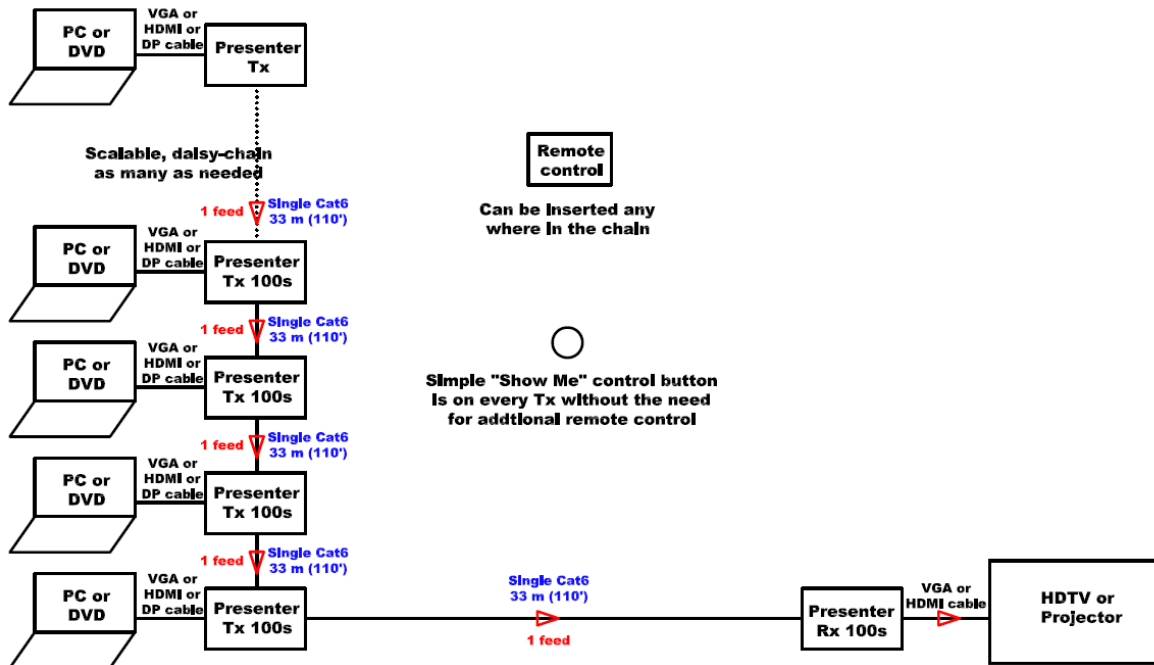


Presenter Tx, Rx and Ex as Extenders

- Traditional switcher system diagram

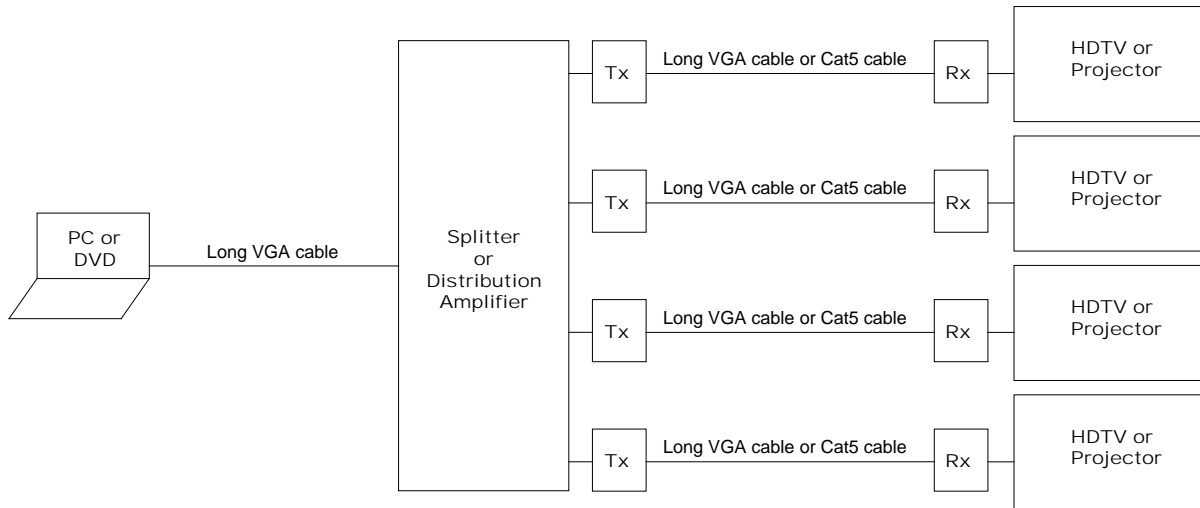


- Presenter daisy-chained Tx's and Rx as switchers

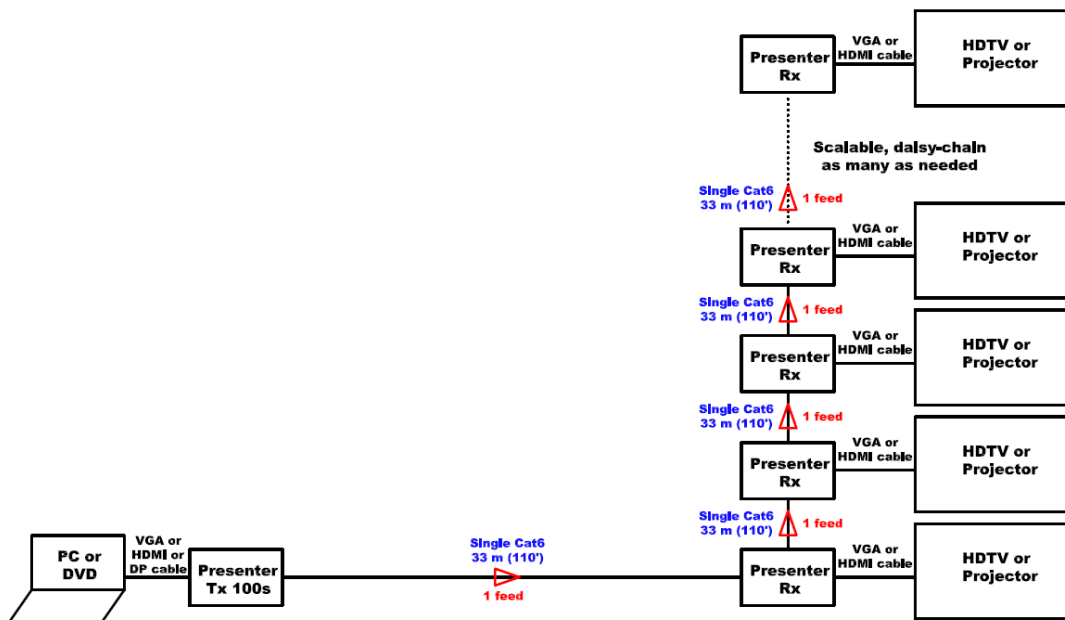


Daisy-chained Presenter Tx's and Rx as Switchers

- Traditional splitter or distribution amplifier system diagram

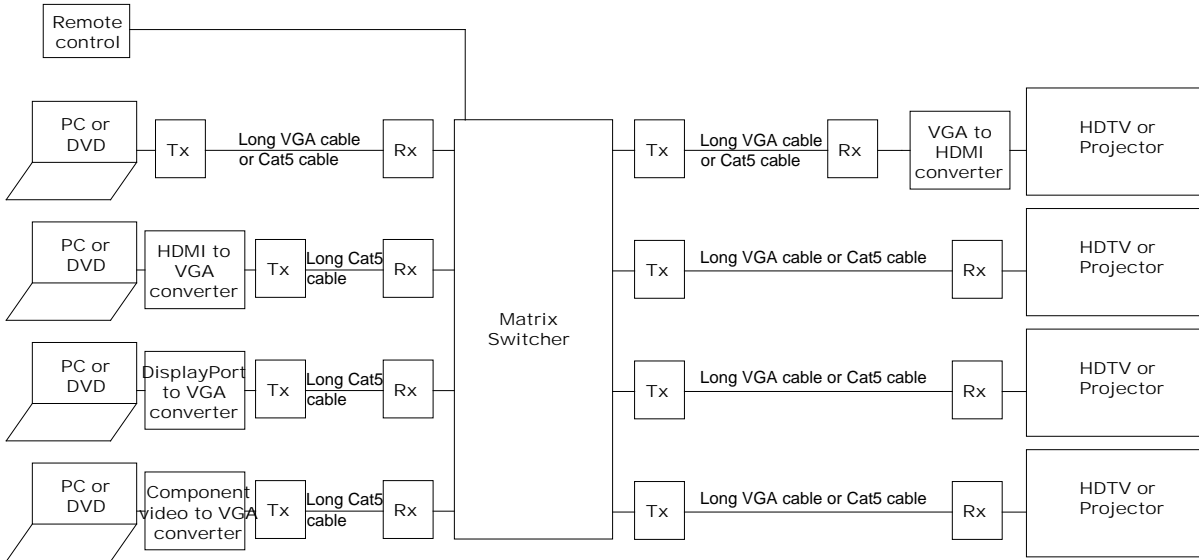


- Presenter daisy-chained Tx and Rx's as splitters

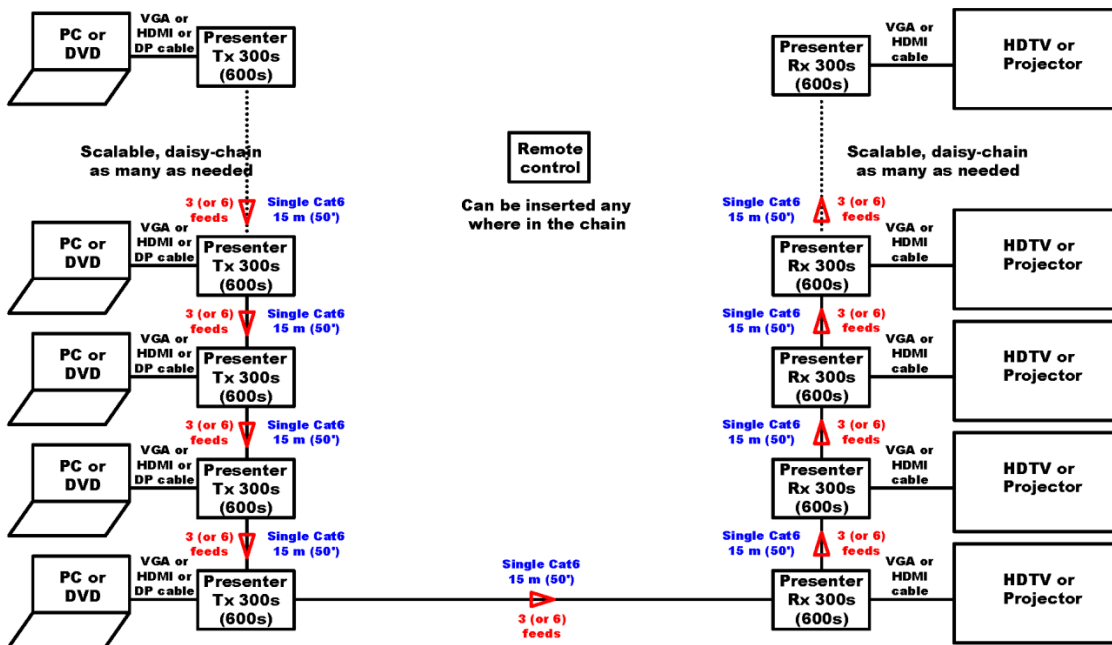


Daisy-chained Presenter Tx and Rx's as Splitters

- Traditional matrix switcher system diagram



- Presenter daisy-chained Tx's and Rx's as small matrix switchers



Daisy-chained Presenter Tx's and Rx's as Matrix Switchers

- Presenter chained Tx's, Rx's and Nodes as large matrix switchers

