

DP HUB MST+SST Expander

DisplayPort Splitter/Distributor allows multiplication of a single DisplayPort-equipped video and audio source (audio performance depends on equipments) to multiple DisplayPort/HDMI-equipped displays. Multiple monitors can be set as Mirror model or expand function enables users to combine multiple monitors as a single display, for a panoramic view. Plug-and-play for easy installation requires no software installation. DisplayPort Splitter/Distributors are designed for high end user requiring high quality digital multiple display, such as presentation, gaming, graphic design etc.



DP-H142/DP-H14



DP-H122/DP-H12

Features:

- Support DP V1.2 standard.
- Support DP 1.2a MST+SST mode with 4 independent video/audio streams.
- Either 4 DP V1.2a Tx sources or 4 HDMI/DVI signaling sources.
- Support 2x2 video matrix and every HDMI/DVI signaling source supports display resolution up to either 1920x1080 or 1920x1200. (see the diagram as below) and total display resolution will be up to 4Kx2K@60hz display resolution in MST mode.
- Support 1x4 video wall that total display resolution will be up to 8Kx1K display resolution in MST mode.
- Support main link rates of 5.4Ghz/per lane.
- Interface Standards compliance: Display Port v1.2/1.1a , HDMI V1.4a, VESA DDM standard, HDCP V1.3, EDID V1.4.
- Input pixel format support RGB444/YCC.
- Input pixel data depth 6/8/10/12 bits
- Compatible with VESA standard.

Specifications:

MODEL	DP-H122/DP-H12	DP-H142
Description	Splitter / Expand	Splitter / Expand
Connectors(input)	DisplayPort	DisplayPort
Connectors(Output)	HDMI	HDMI
Port Selection	2	4
Max Resolution	3840	7680
ODM Design	OK	OK
Power Adaptor	5V 2A	5V 2A



AMD 6DP 7756P

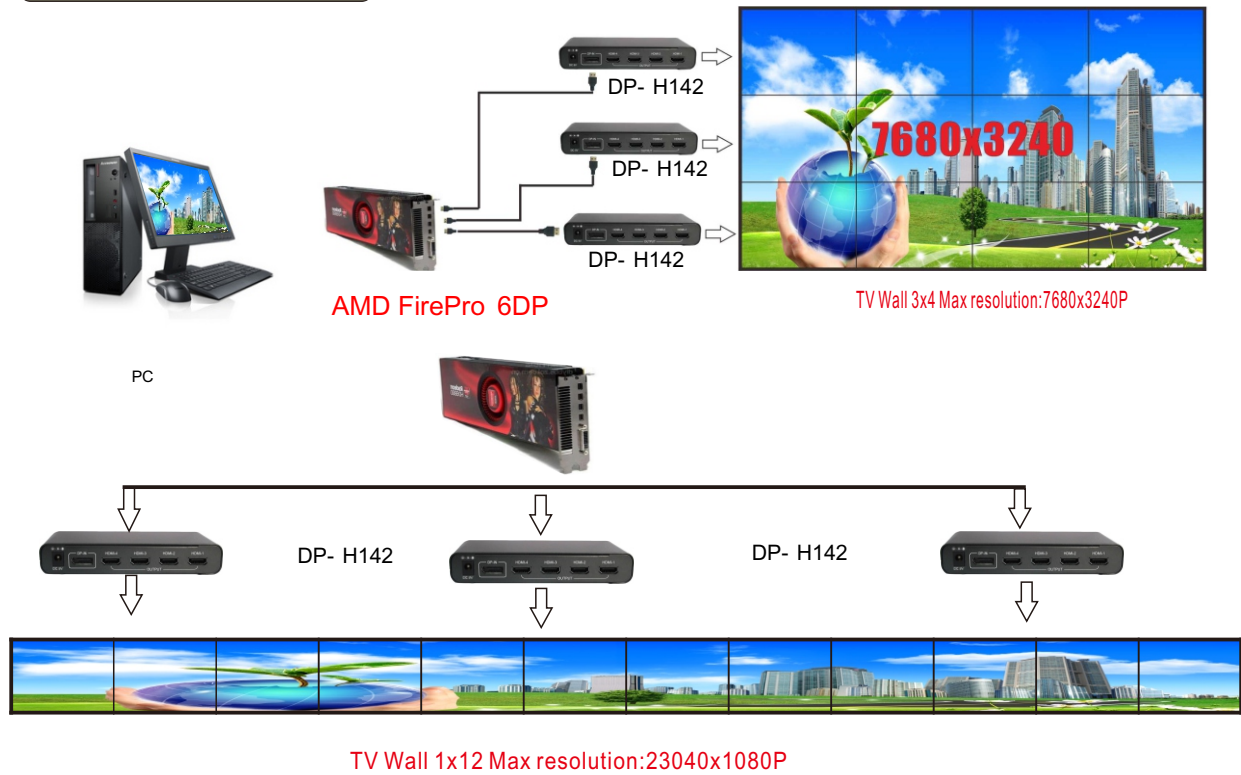
AMD 6DP 7756P Eyefinity6

1.0 Features:

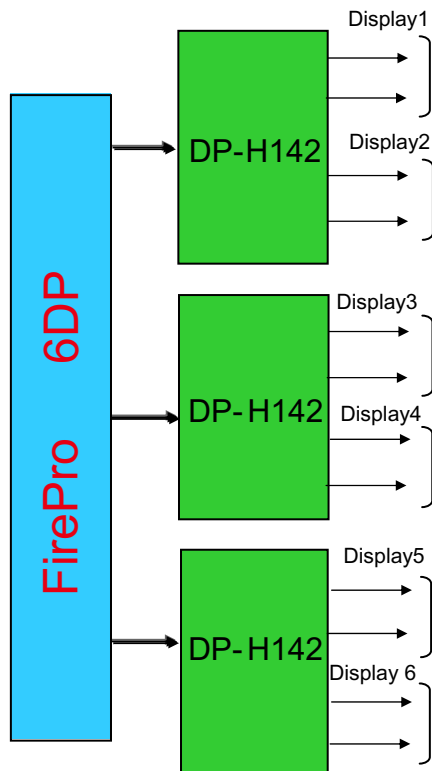
- Based on PCI Express 3.0, ATI Radeon™ HD 7750 GCN Architecture GPU.
- 128-bit memory bandwidth 2GB GDDR5 @1125Mhz clock speed.
- Supports 6x DisplayPort v1.2 monitors @2560 x 1600 resolution per monitor.
- Fully DirectX® 11 compliant.
- OpenGL 4.2 support and Linux O/S supported.
- Image quality enhancement technology supports 24x multi-sample, super-sample anti-aliasing modes, adaptive anti-aliasing (MLAA), 16x angle independent anisotropic texture filtering and 128-bit floating point HDR rendering.
- Supports AMD Eyefinity multi-display technology up to 6 displays supported.
- Supports up to 6 x DisplayPort v1.2 displays in Windows extend or clone mode.
- With Independent resolutions, refresh rates, color controls, and video overlays
- Display grouping combine multiple displays to behave like a single large display
- AMD App Acceleration is a set of technologies designed to improve video quality and enhance application performance. Full enablement of some features requires support for OpenCL™, DirectCompute or DirectX®Video Acceleration (DXVA).
- AMD Catalyst™ graphics and HD video configuration software
- Software support for Windows 7, Windows Vista and Linux
- AMD Catalyst™ Control Center - AMD Catalyst™ software application and user interface for setup, configuration, and accessing features of AMD Radeon products.

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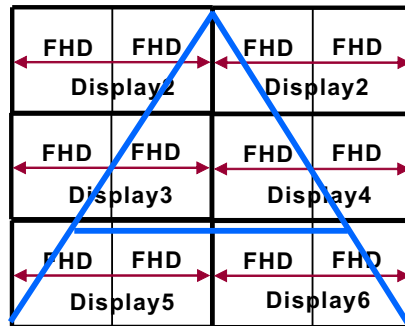
3x4/1x12 System Diagram



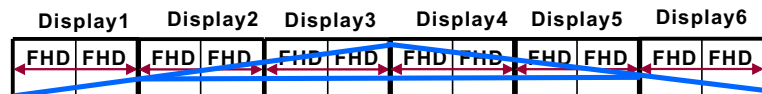
System block diagram :



3X4 VIDEO MATRIX



1X12 VIDEO MATRIX



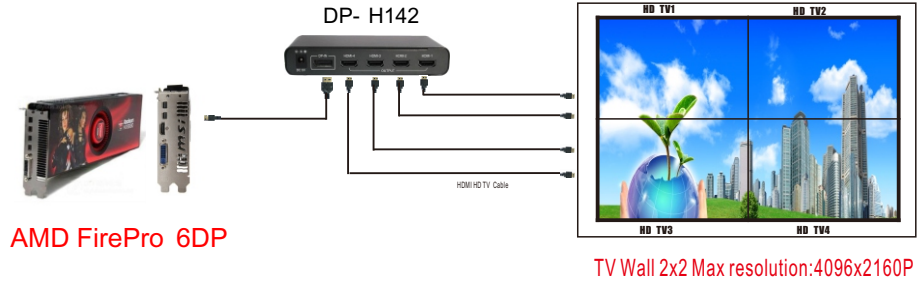
Notes:

1. GPU needs to support DPV1.2 MST mode.
2. Windows OS platform: W7/W8 or above.
3. **Graphic card provider: AMD FirPro series.**
4. The unity monitor needs to be chosen (same brand and same model name).
5. <2m of DP V1.2 certificate cable is must.
6. <3m of HDMI V1.4 cable is must.

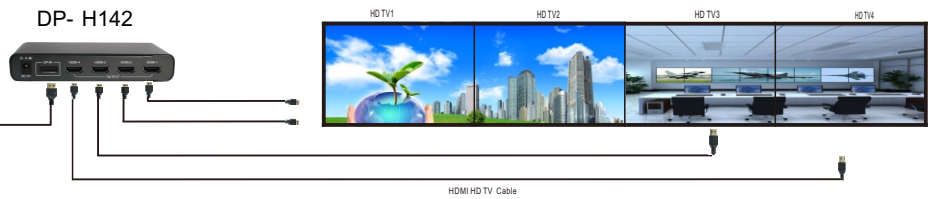
DP HUB MST+SST Expander

2x2/1x4 System Diagram

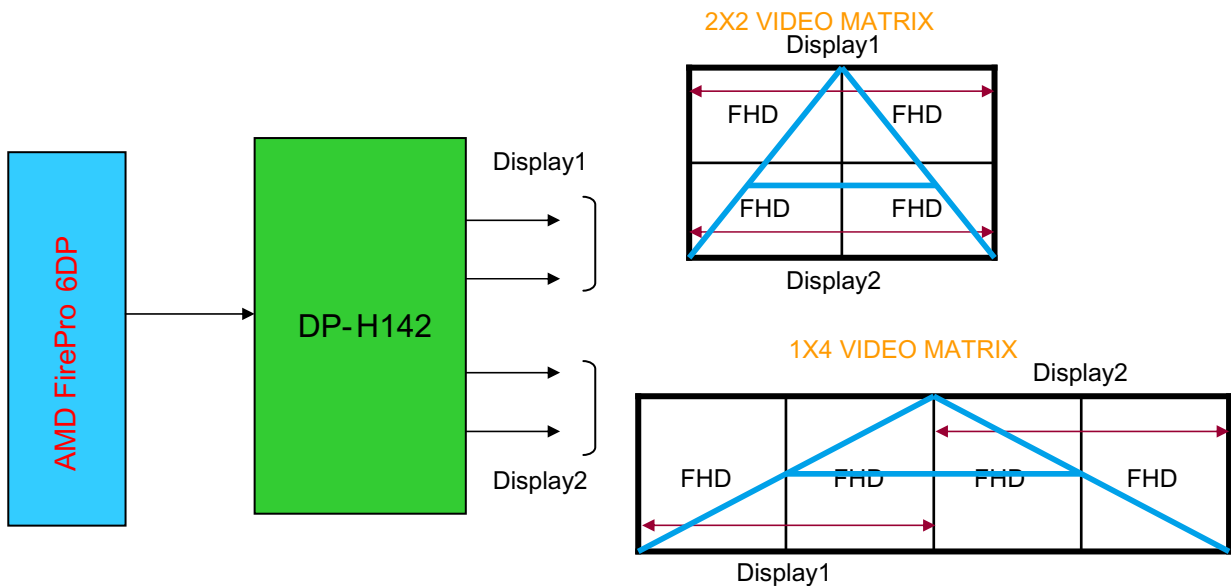
2x2 video matrix



1x4 video matrix



System block diagram :

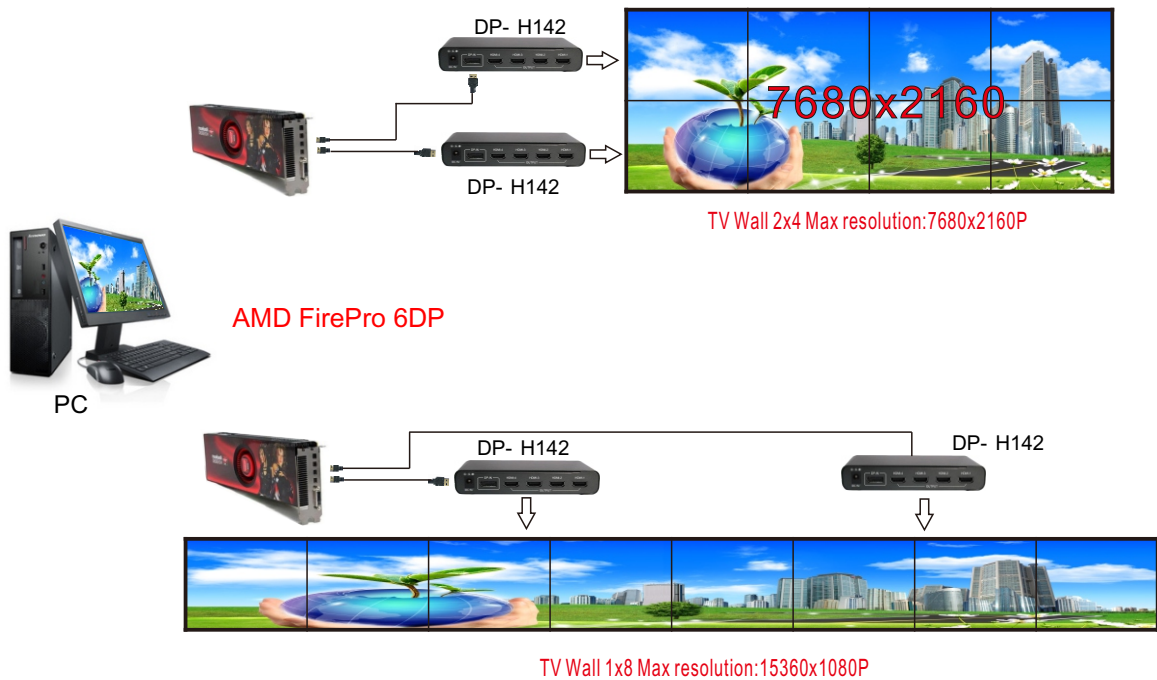


Notes:

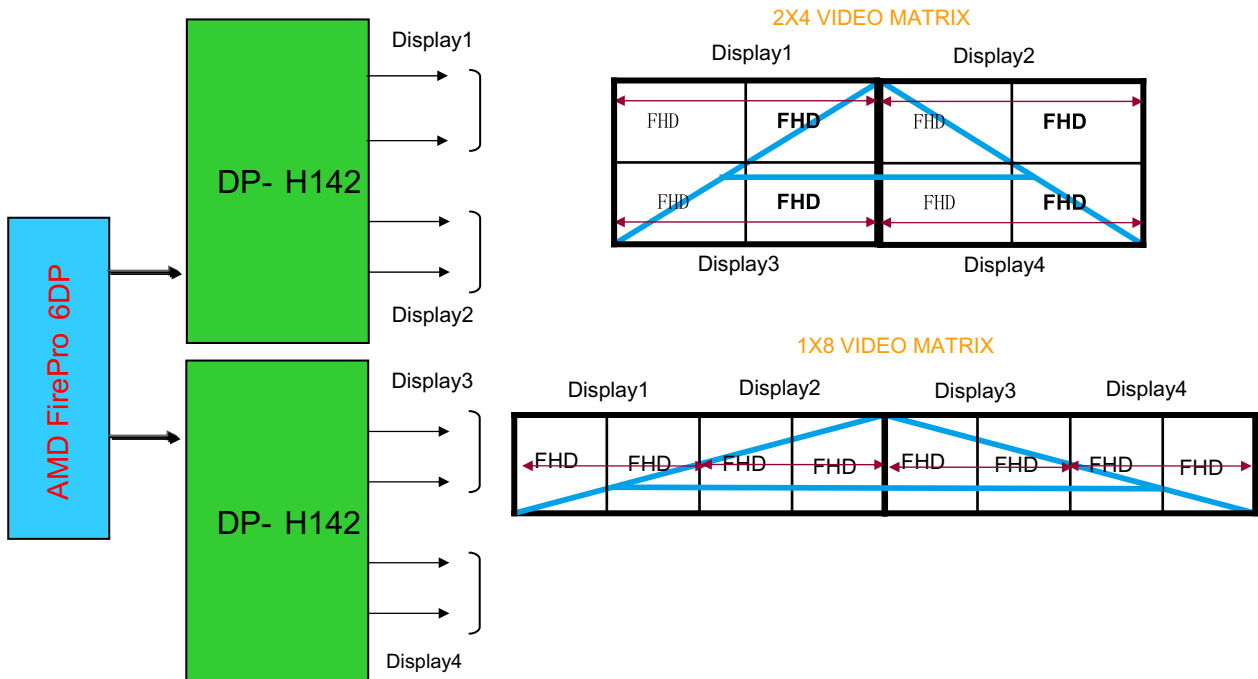
1. GPU needs to support DPv 1.2 MST mode.
2. Windows OS platform: W7/W8 or above.
3. Graphic card provider: AMD77XX/78xx/79xx series, R7/R9 series and FirPro series etc.
4. The unity monitor needs to be chosen (same brand and same model name).
5. <2m of DP V1.2 certificate cable is must.
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DP HUB MST+SST Expander Application

2X4/1X8 System Diagram



System block diagram :

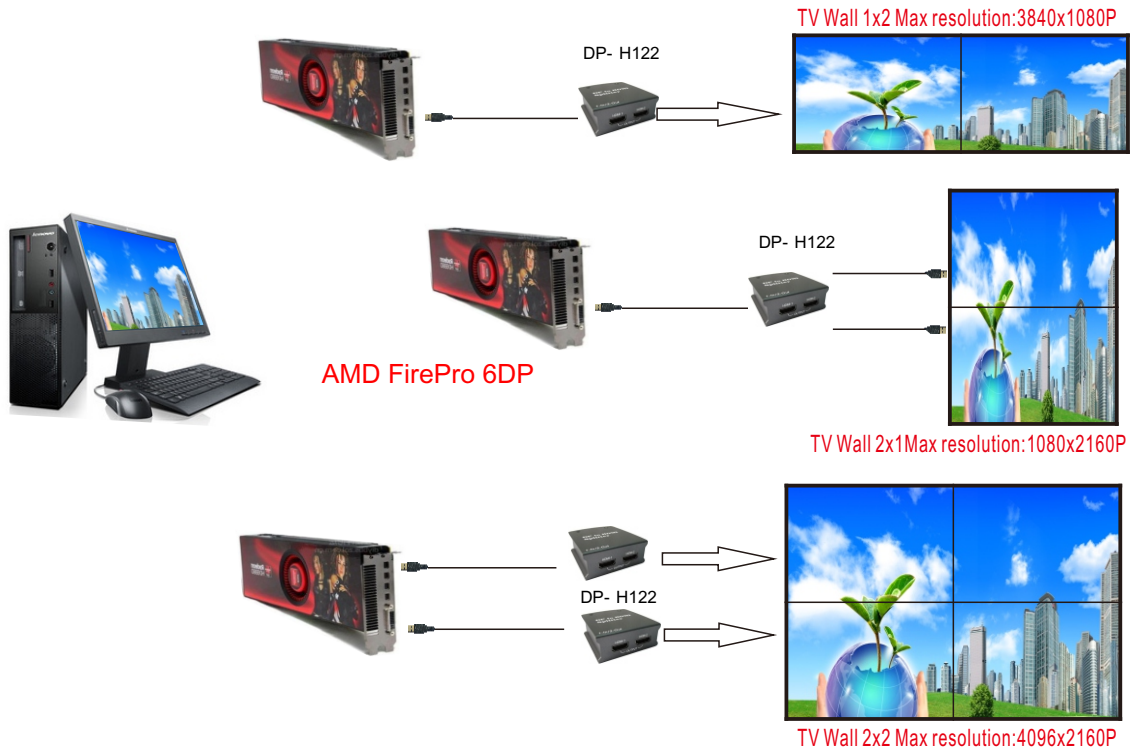


Notes:

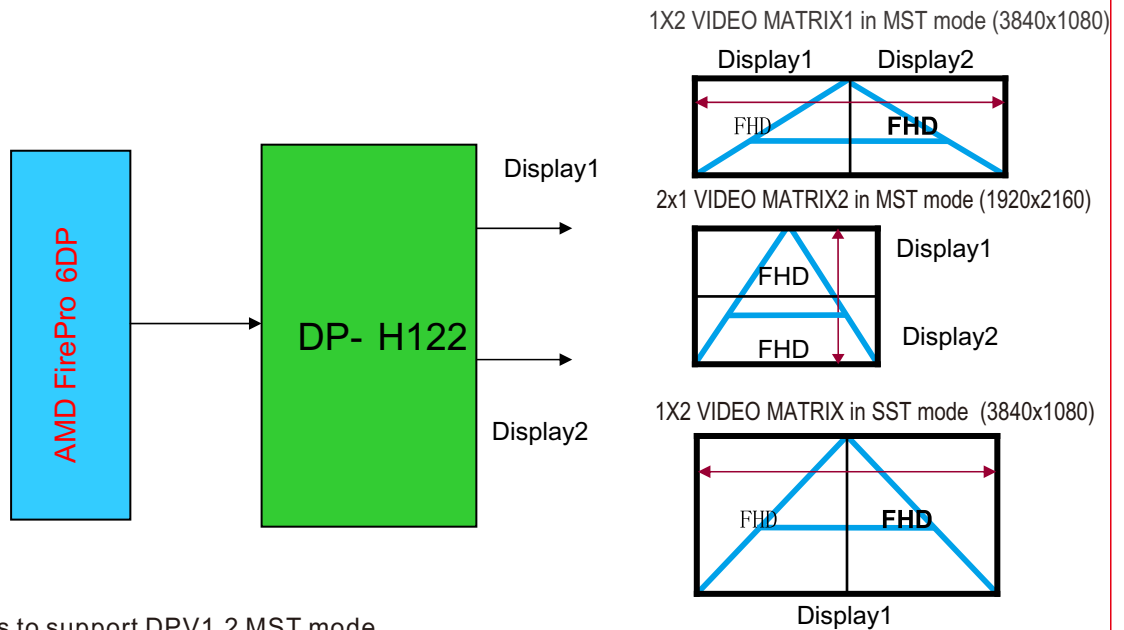
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DP HUB MST+SST Expander Application

1x2 2x1 System Diagram



System block diagram :

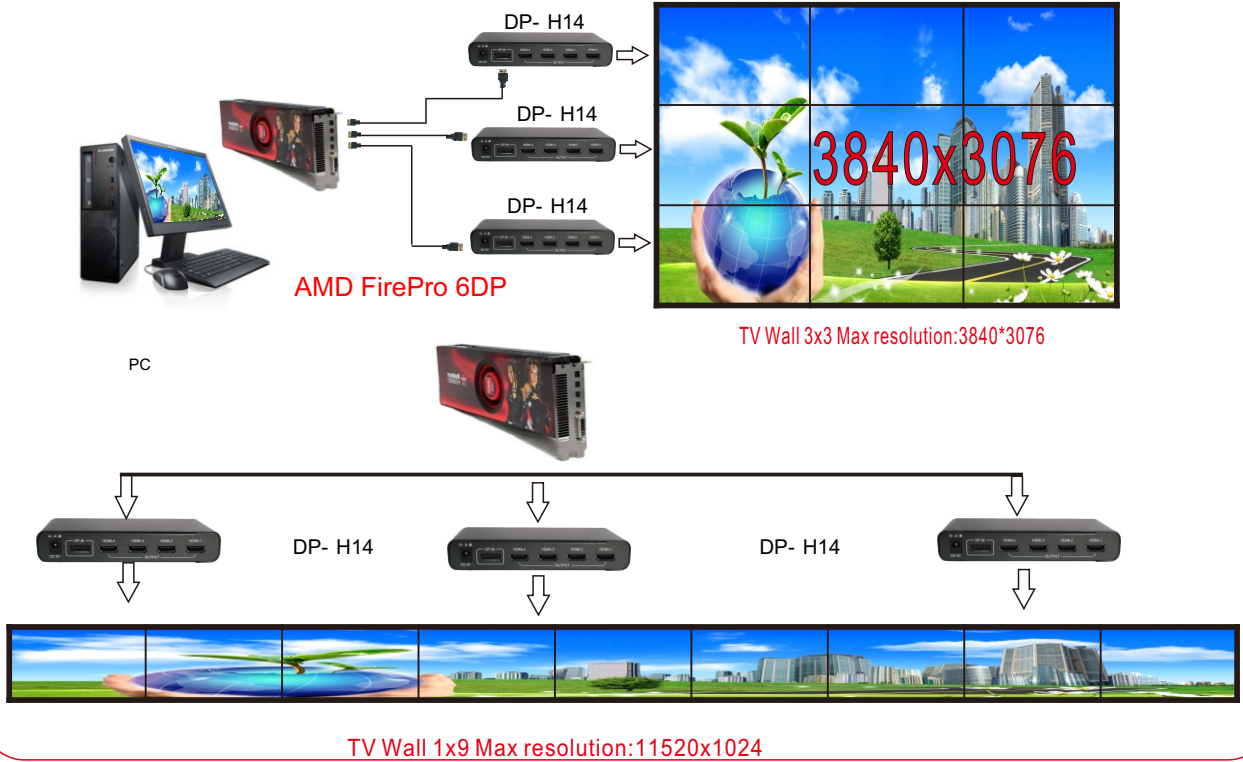


Notes:

1. GPU needs to support DPV1.2 MST mode.
2. GPU needs to support the multi-display combination function provider. OS platform: W7/W8 or above.
3. The unity monitor needs to be chosen (same brand and same model name).
4. <2m of DP V1.2 certificate cable is must.
5. <3m of HDMI V1.4 cable is must.

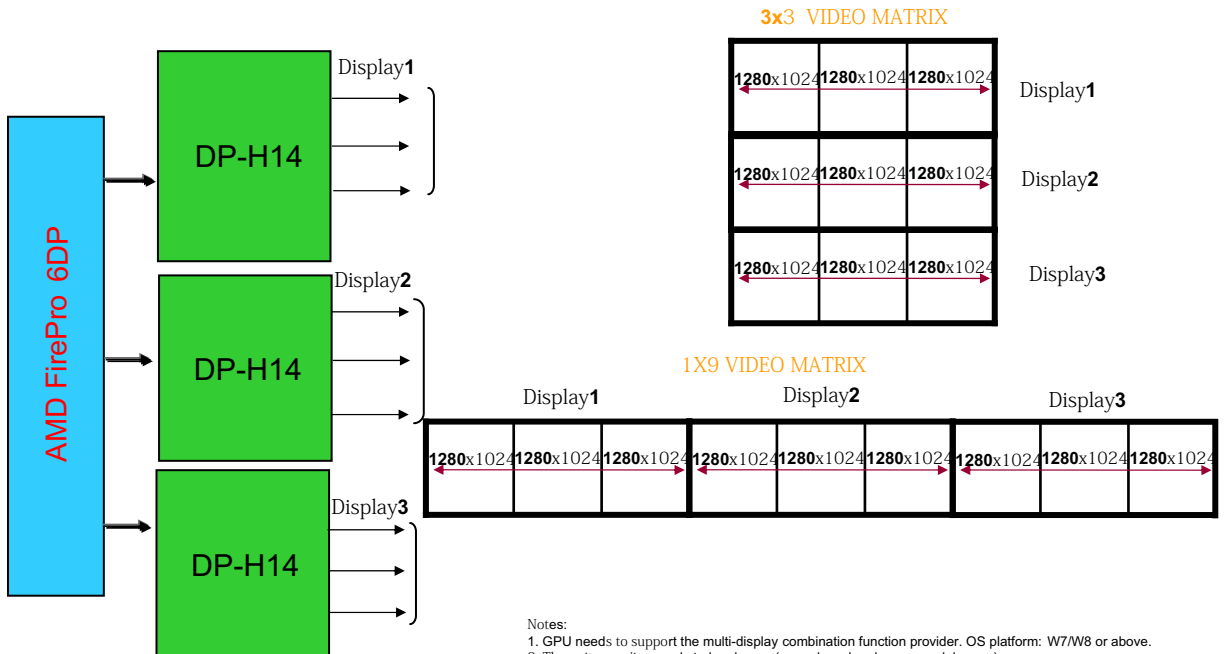
DP HUB MST+SST Expander Application

3x3/1x9 System Diagram



System block diagram :

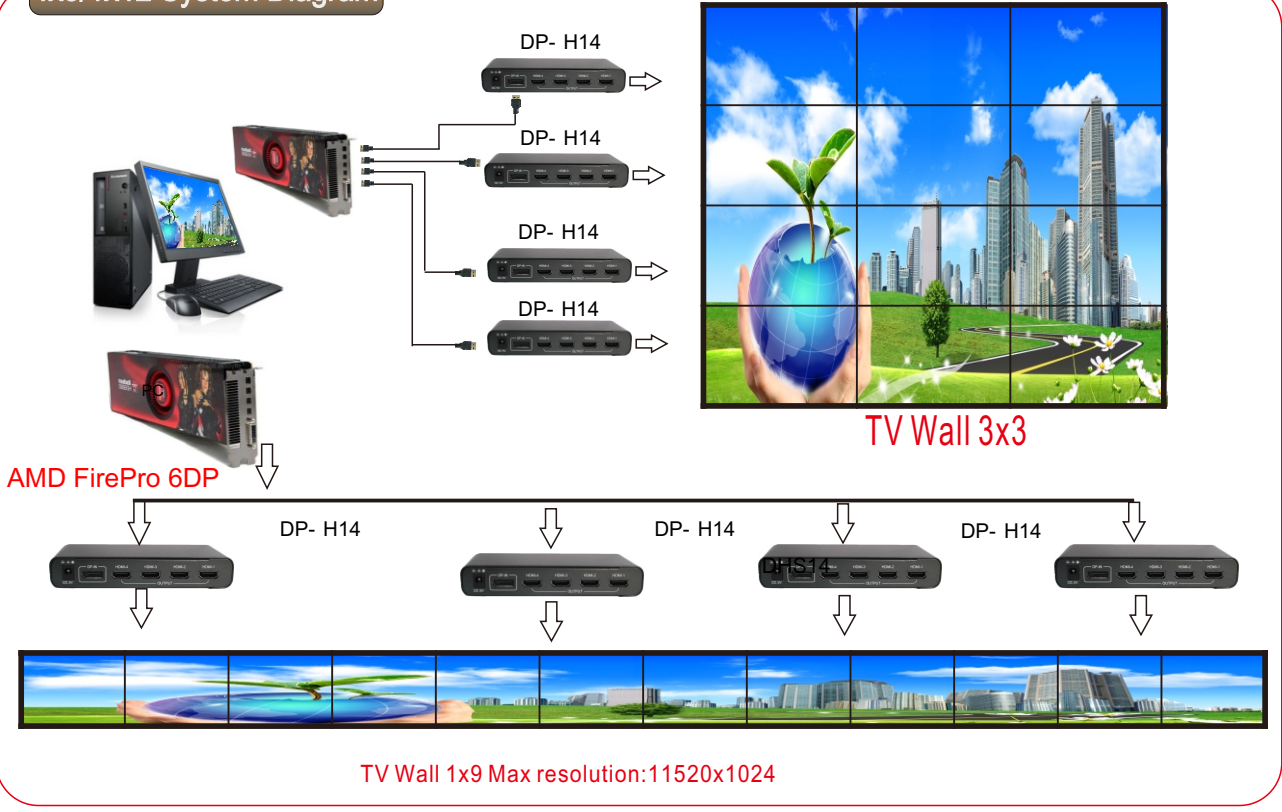
3x3/1x9 System diagram



- Notes:
1. GPU needs to support the multi-display combination function provider. OS platform: W7/W8 or above.
 2. The unity monitor needs to be chosen (same brand and same model name).
 3. <2m of DP V1.2 certificate cable is must.
 4. <3m of HDMI V1.4 cable is must.

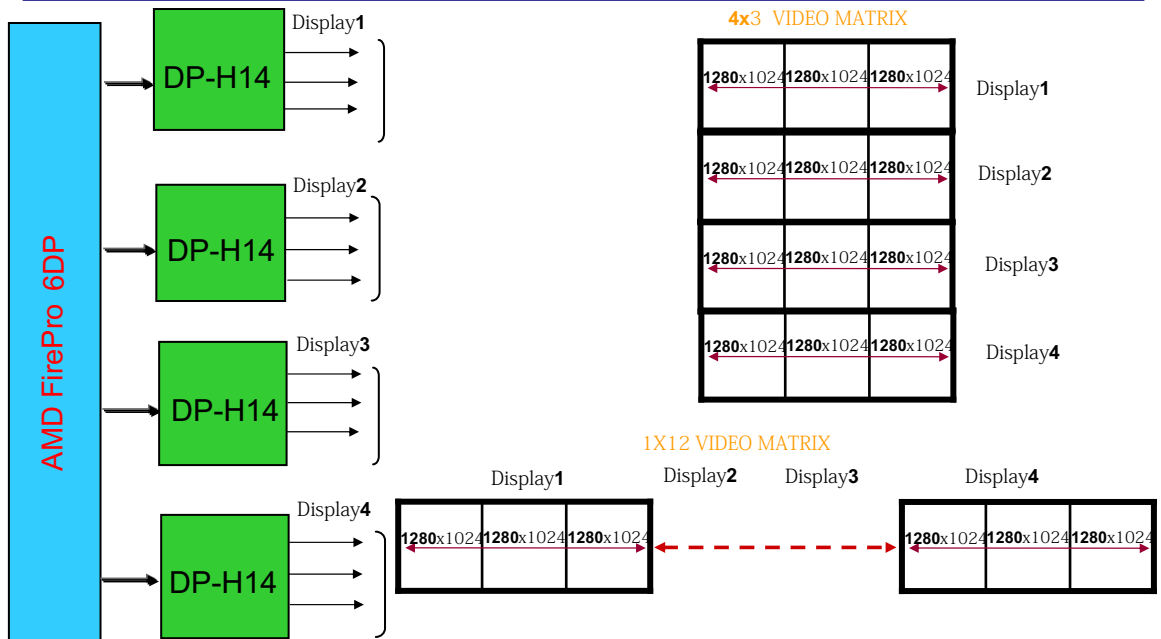
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4x3/1x12 System Diagram



System block diagram :

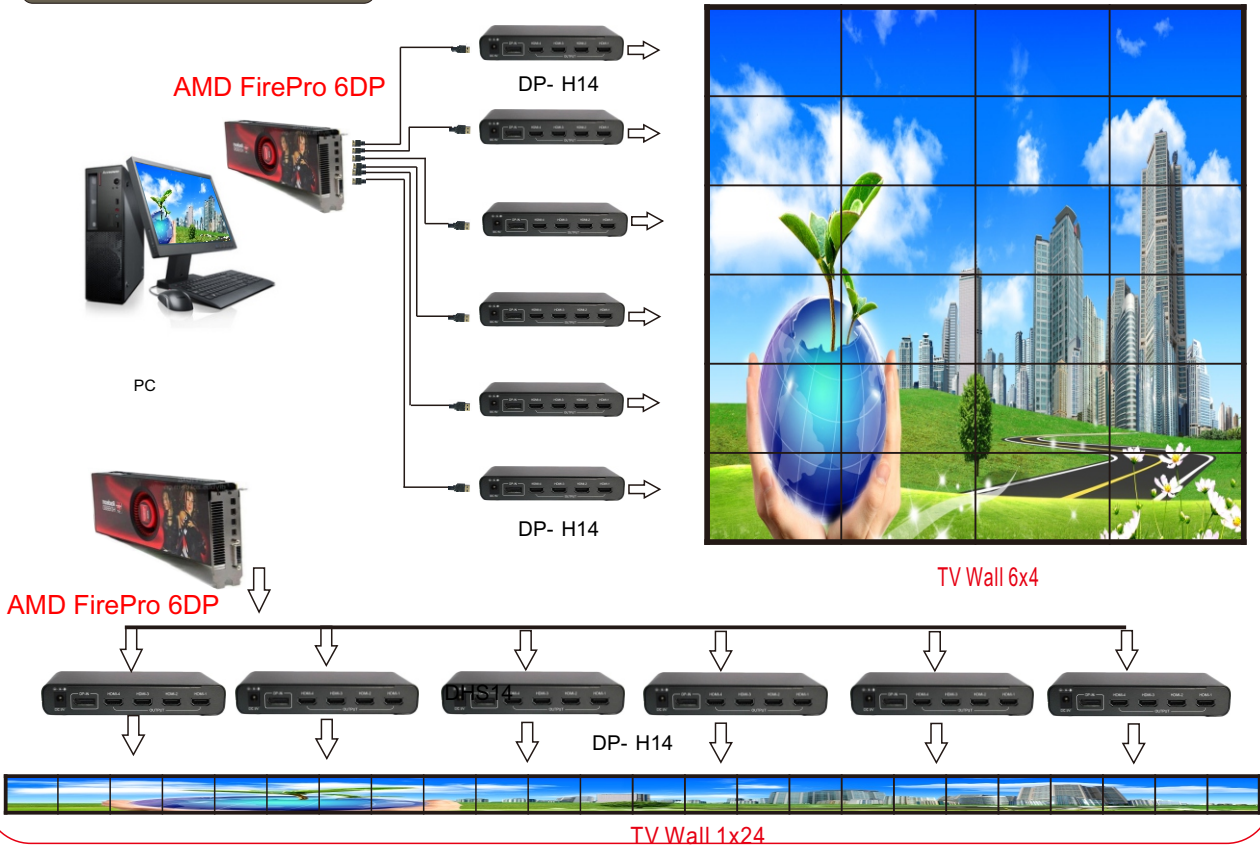
4x3/1x12 System diagram



- Notes:
1. GPU needs to support the multi-display combination function provider. OS platform: W7/W8 or above.
 2. The unity monitor needs to be chosen (same brand and same model name).
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 4. <3m of HDMI V1.4 cable is must.

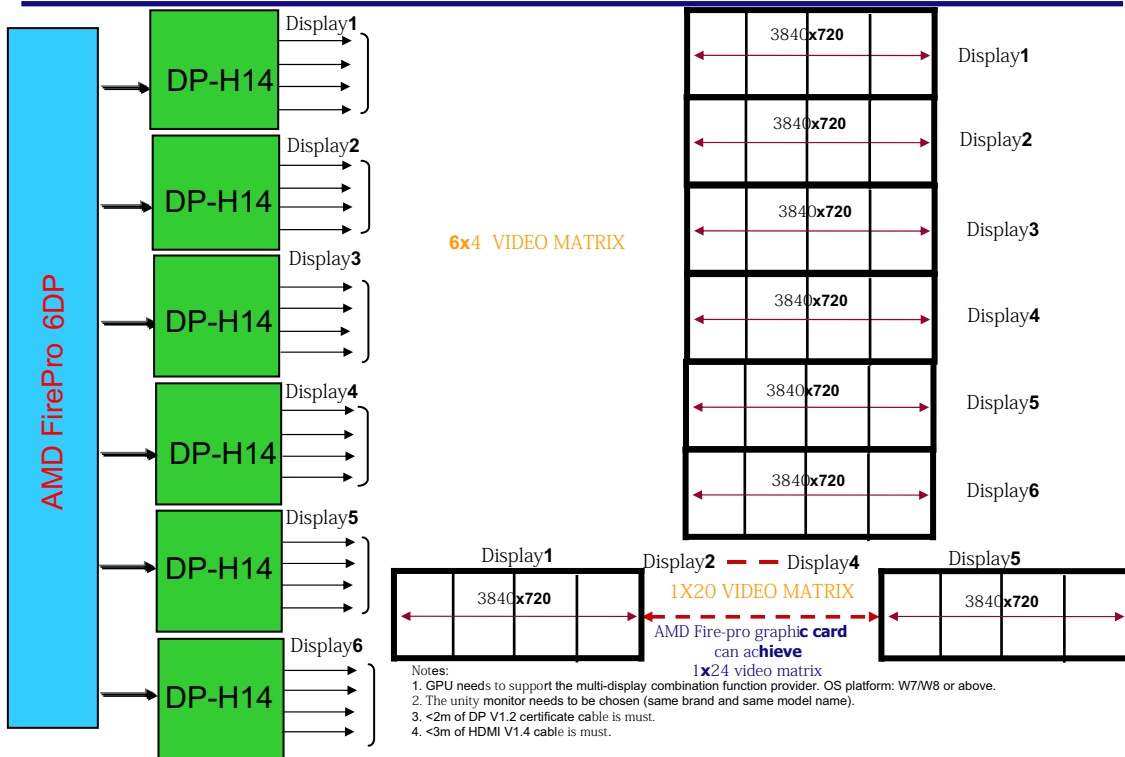
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6x4/1x24 System Diagram



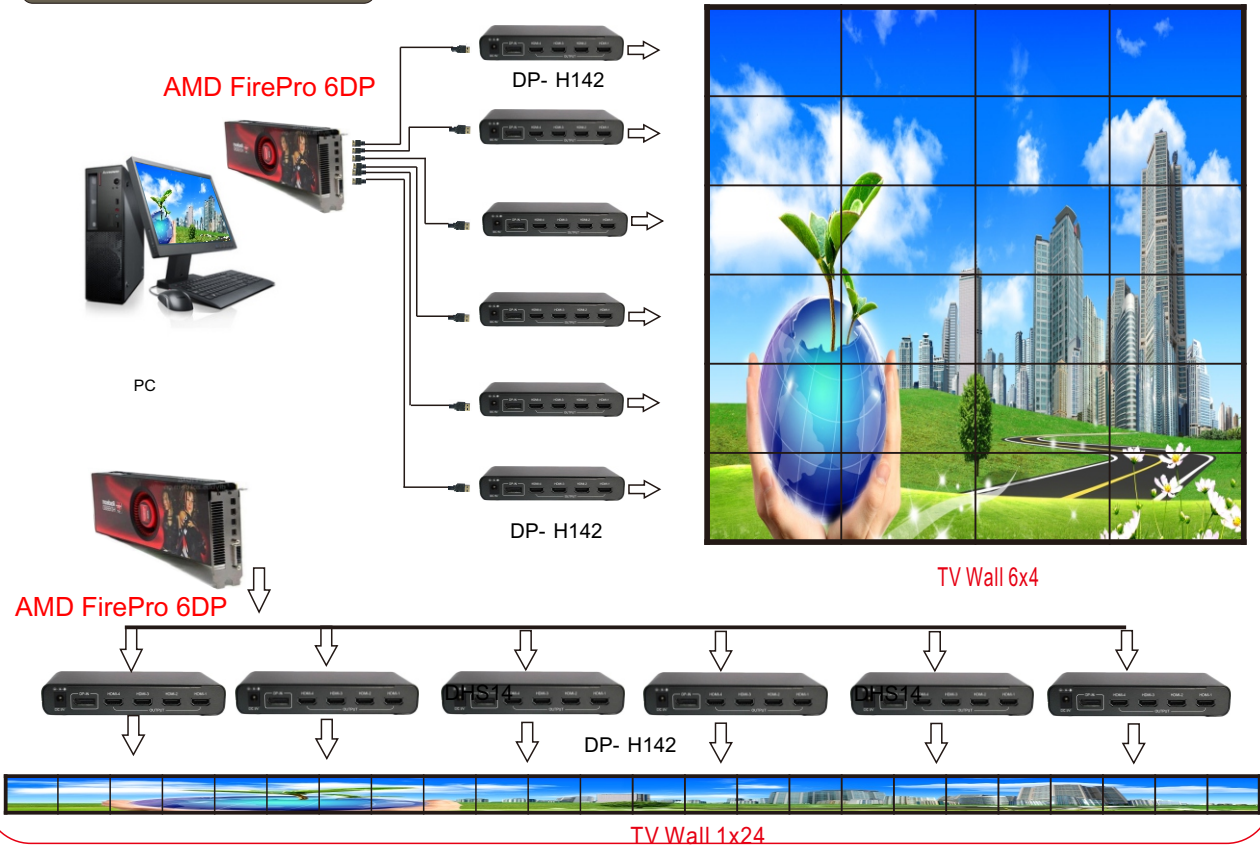
System block diagram :

6x4/1x24 System diagram-1



DP HUB MST+SST Expander Application

6x4/1x24 System Diagram



System block diagram :

6x4/1x24 System diagram-2

