

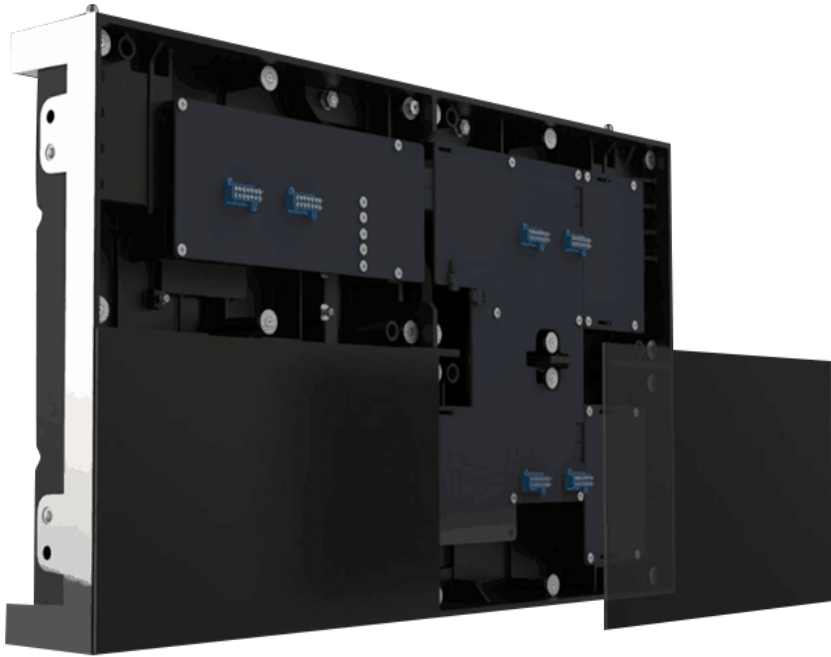
KEDACOM

Display & Control Solution



**Reliable Displays Built for
Command Center**

Ultra-fine Pitch LED Display System



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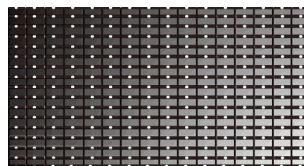
KEDACOM's JY series fine pitch LED screen solution, is specially designed as a highly professional level display solution for a variety of indoor applications, including command center and video communication room in particular, with options of 1.2mm and 1.5mm available.

In order to solve traditional LED screen solution's problem such as the lack of image fidelity in real-time monitoring, conference and command scenes, JY series uses high end LED components accompanied with KEDACOM image optimizing algorithm, which will truly reflect synchronous and vivid viewing image for command center and video communication system. In addition, KEDACOM creates an innovative star topology connection scheme and redundancy backup mechanism making it applicable to 24/7 operations, which provides safety and reliability for your emergency dispatching system.

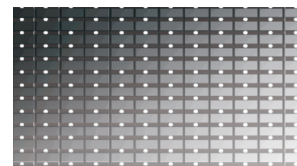
Professional Image Performance

• Low Brightness but High Grey Scale

JY series featuring high grey scale in low brightness are specially designed for indoor command center where needs long time observation. They're supported by its high grey scale in low brightness mode, not only brings more abundant details and higher vividness to image than traditional LED screen, particularly when displaying infrared black and white image at night, but also protect observer's eyes during long time observation.



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• Professional Image Processing

Thanks to KEDACOM's Professional Image Processor and Patented ISP Algorithm, together with the deep accumulation of industry solution experience, LED Display generates more spontaneous, exquisite quality. In the meantime, the Point-by-Point Calibration technology ensures uniformity on brightness-and-color of the whole display. In addition, flexible adjustment can be controlled in brightness, hue, saturation, contrast rate, sharpness, color temperature and many more to achieve optimum display effect.

• Wide Angle of View

KEDACOM LED display features wide viewing angle of 160° horizontally and vertically without color differences from different angles, which makes the display clearly viewable from multiple directions.



• 16:9 & High Resolution

Each module adopts 16:9 point-to-point display design, which can support 2K, 4K, 8K and other high resolutions. It ensures the pixel to pixel correspondence of LED at high resolution, so as to achieve the ultimate high-definition video image.

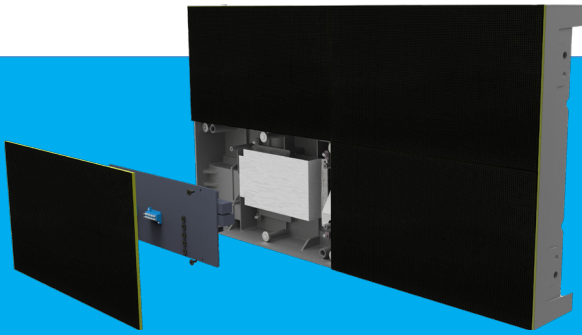
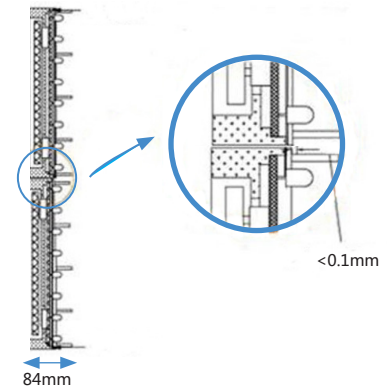
| | | 1x1 | 2x2 | 3x3 | 4x4 | 8x4 | 5x5 | 10x5 | 8x8 | 16x8 | 10x10 | 20x10 | 16x16 | 20x20 |
|-----------------|----------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| Models | JY-P2-X12/X12S | 480×270 | 960×540 | 1440×810 | 1920×1080 | 3840×1080 | 2400×1350 | 4800×1350 | 3840×2160 | 7680×2160 | 4800×2700 | 9600×2700 | 7680×4320 | 9600×5400 |
| | JY-P2-X15/X15S | 384×216 | 768×432 | 1152×648 | 1536×864 | 3072×864 | 1920×1080 | 3840×1080 | 3072×1728 | 6144×1728 | 3840×2160 | 7680×2160 | 6144×3456 | 7680×4320 |
| Video Wall Size | Feet | 2.00×1.13 | 4.00×2.25 | 6.00×3.38 | 8.00×4.50 | 16.00×4.50 | 10.00×5.63 | 20.00×5.63 | 16.00×9.00 | 32.00×9.00 | 20.00×11.25 | 40.00×11.26 | 32.01×18.00 | 40.00×22.50 |
| | Meters | 0.61×0.34 | 1.22×0.69 | 1.83×1.03 | 2.44×1.37 | 4.88×1.37 | 3.05×1.72 | 6.1×1.72 | 4.88×2.74 | 9.76×2.74 | 6.1×3.43 | 12.2×3.43 | 9.76×5.50 | 12.2×6.86 |

1080p Dual 1080p 4K Dual 4K 8K

Delicate Industrial Design and Easy Maintenance

• High Working Accuracy

High Working Accuracy is adopted comprising <math><0.1\text{mm}</math> Flatness of Cabinet, Seamless Splicing, Consideration with Heat Expansion, Full Die-casting Aluminum, Ultra Light and Thin.



• Magnetic and Modular

Magnetic module and Cableless design creates a low failure rate. LED module, Power supply and Control board can all be maintained at the front side, which is simple and efficient.

• Fanless & Silent

The Cabinet design which is fanless without ventilation hole and zero noise. It also utilizes its own material and structure for heat dissipation, expanding product's life span without dust accumulation problem.

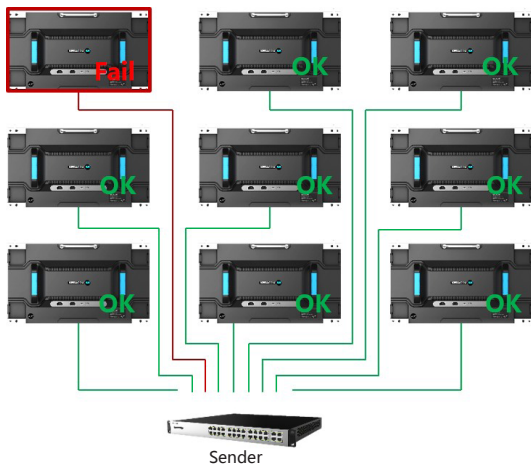


• Graphic Management

Graphic Management could monitor and configure cabinet and senders visually. User can select different mode by themselves, which is simple and easy to use.

System-level High Reliability

• Pioneering Star Topology



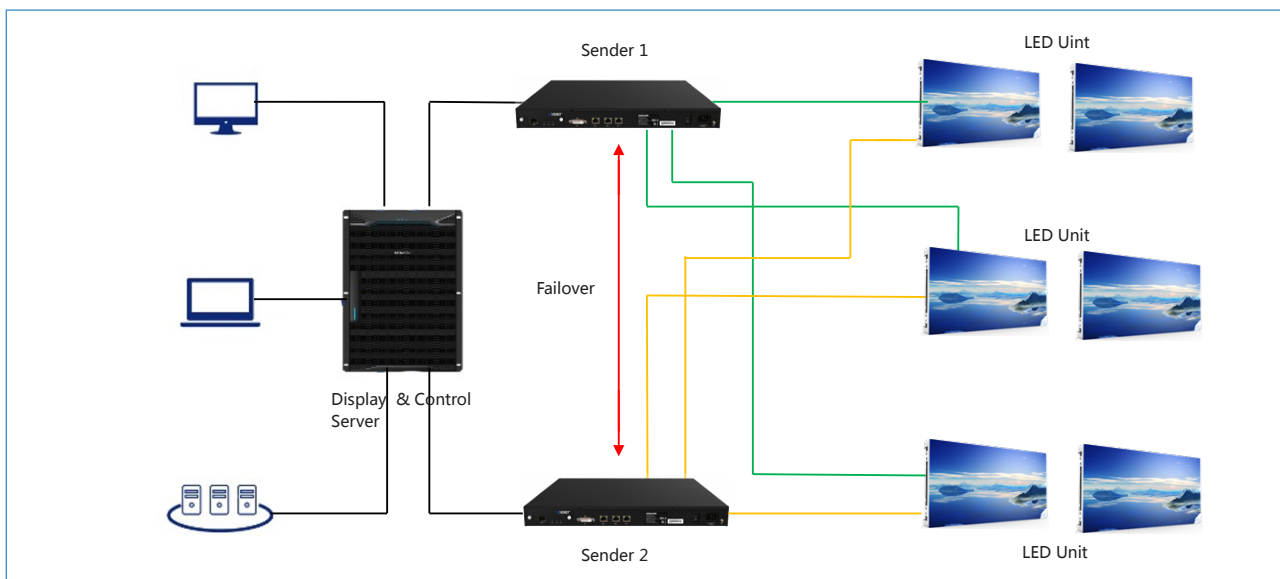
KEDACOM brings the innovative and pioneering star topology structure, with sender connecting each cabinet by cables independently which leads to less looping failure. The usual serial connection structure used will lead to complex wiring and whole display failure, once any cabinet display fails. The failure is hard to be diagnosed, causes time wastage, and critical video lost. However, in star topology structure, failure of single cabinet will not affect other cabinets which reduces risk by losing only the error cabinet and makes it easy and quick to be diagnosed and located.

So far the most used serial structure by other suppliers is getting much more complicated, once any cabinet is at fault, it will be hard to find or pin point.





Whereas if a single cabinet fails in the star topology connection, there will only be that cabinet that will need to be shut down, but not affecting all the other connection or display cabinet. Therefore, this can help decrease the risk of single fault point, meanwhile locate where the problem is immediately.

• Power and Link Redundancy

The system is insured thoroughly with dual receiver and power module, which achieve power and link redundancy. Equipped with dual senders and connected to the 2 signal input ports on LED module, when the Sender 1 fails, the system will switch the signal source to the Sender 2 automatically to ensure the reliable operation on its own.



• LED Display Screen

| Model | | JY-P2-X12 (Single Power Single Receiver) | JY-P2-X12S (Dual-Power Dual-Receiver) | JY-P2-X15 (Single Power Single Receiver) | JY-P2-X15S (Dual-Power Dual-Receiver) |
|---------------------|---------------------------------------|---|---|---|---|
| | |  |  |  |  |
| Module | Pixel Configuration | SMD 3 in 1 | SMD 3 in 1 | SMD 3 in 1 | SMD 3 in 1 |
| | Pixel Pitch (mm) | 1.27 | 1.27 | 1.588 | 1.588 |
| | Module Resolution (W × H) | 240 × 135 | 240 × 135 | 192 × 108 | 192 × 108 |
| | Module Dimensions (W × H × D) | 304.96 × 171.54 × 13 (mm) | 304.96 × 171.54 × 13 (mm) | 304.96 × 171.54 × 13 (mm) | 304.96 × 171.54 × 13 (mm) |
| Unit | No. of Modules per Unit (W × H) | 2 × 2 | 2 × 2 | 2 × 2 | 2 × 2 |
| | Unit Resolution (W × H) | 480 × 270 | 480 × 270 | 384 × 216 | 384 × 216 |
| | Unit Dimensions (W × H × D) | 609.92 × 343.08 × 82 (mm) | 609.92 × 343.08 × 82 (mm) | 609.92 × 343.08 × 82 (mm) | 609.92 × 343.08 × 82 (mm) |
| | Unit Area (m2) | 0.209 | 0.209 | 0.209 | 0.209 |
| | Weight per Unit (kg / unit) | 9 | 10 | 9 | 10 |
| | Pixel Density (pixels / m2) | 620000 | 620000 | 396550 | 396550 |
| | Flatness of Unit (mm) | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 |
| Hardware Interface | Video Receive Port (RJ45) | 1 | 2 | 1 | 2 |
| | Power Input Port | 1 | 2 | 1 | 2 |
| Display | Brightness Correction of Single Point | Supported | Supported | Supported | Supported |
| | Color Correction of Single Point | Supported | Supported | Supported | Supported |
| | White Balance Brightness (nits) | 800 (CT 6500k, by correction) | 800 (CT 6500k, by correction) | 800 (CT 6500k, by correction) | 800 (CT 6500k, by correction) |
| | CT (K) | 2000~9300, adjustable | 2000~9300, adjustable | 2000~9300, adjustable | 2000~9300, adjustable |
| | Viewing Angle (H) | 160° | 160° | 160° | 160° |
| | Viewing Angle (V) | 160° | 160° | 160° | 160° |
| | Central Light Deviation | ≤ 2.5% | ≤ 2.5% | ≤ 2.5% | ≤ 2.5% |
| | Brightness Uniformity | ≥ 98% | ≥ 98% | ≥ 98% | ≥ 98% |
| | Color Uniformity | Within ±0.003 Cx, Cy | Within ±0.003 Cx, Cy | Within ±0.003 Cx, Cy | Within ±0.003 Cx, Cy |
| Electrical | Max. Power Consumption | 160W/unit, 766W/m ² | 160W/unit, 766W/m ² | 160W/unit, 766W/m ² | 160W/unit, 766W/m ² |
| | Avg Power Consumption | 53W/unit, 255W/m ² | 53W/unit, 255W/m ² | 53W/unit, 255W/m ² | 53W/unit, 255W/m ² |
| | Power Supply | AC100~240V (50~60 Hz) | AC100~240V (50~60 Hz) | AC100~240V (50~60 Hz) | AC100~240V (50~60 Hz) |
| Processing Capacity | Driving Mode | Constant Current Drive | Constant Current Drive | Constant Current Drive | Constant Current Drive |
| | Frame Rate (Hz) | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 |
| | Refresh Rate (Hz) | 3840 | 3840 | 3840 | 3840 |
| Operation | Lifetime (Hrs) | 100,000 | 100,000 | 100,000 | 100,000 |
| | Operating Temp. (°C) | -10 ~ +55 | -10 ~ +55 | -10 ~ +55 | -10 ~ +55 |
| | Storage Temp. (°C) | -25 ~ +85 | -25 ~ +85 | -25 ~ +85 | -25 ~ +85 |
| | Operating Humidity (RH) | 10 ~ 90% RH non-condensing | 10 ~ 90% RH non-condensing | 10 ~ 90% RH non-condensing | 10 ~ 90% RH non-condensing |
| | Storage Humidity (RH) | 10 ~ 95% RH non-condensing | 10 ~ 95% RH non-condensing | 10 ~ 95% RH non-condensing | 10 ~ 95% RH non-condensing |
| Maintenance | Serviceability | Front | Front | Front | Front |

LCD Display System



KEDACOM LCD product features ultra-narrow bezel panel with seams minimum at 1.8mm. Direct type LED backlight can accomplish high brightness and wide color gamut.

There are rich selections of video interfaces of DVI VGA, HDMI and many more. Now users can mix and match three different sizes-46", 49" and 55", two seam types-1.8mm and 3.5mm, two brightness levels-500cd/m² and 700cd/m², according to their own requirement. Compared to LED Display, the LCD system has a better performance price ratio.



• 1.8mm Series LCD Display Screen

| Model | | JL-L1-49H18 | JL-L1-49L18 | JL-L1-55H18 | JL-L1-55L18 |
|-----------|-------------------------|---|---|---|---|
| | |  |  |  |  |
| Physical | Diagonal | 49" | 49" | 55" | 55" |
| | Bezel Width | 1.8mm | 1.8mm | 1.8mm | 1.8mm |
| | Panel Type | S-IPS | S-IPS | S-IPS | S-IPS |
| | Backlight | Direct LED | Direct LED | Direct LED | Direct LED |
| | Display Size | 1073.8 × 604mm | 1073.8 × 604mm | 1209.6 × 680.4mm | 1209.6 × 680.4mm |
| | Dimensions | 1075.72 × 605.94 × 74.1mm | 1075.72 × 605.94 × 74.1mm | 1211.5 × 682.3 × 66.3mm | 1211.5 × 682.3 × 66.3mm |
| | Net Weight | 20kg | 20kg | 21kg | 21kg |
| | Gross Weight | 22kg | 22kg | 23.5kg | 23.5kg |
| Display | Resolution | 1920 × 1080 | 1920 × 1080 | 1920 × 1080 | 1920 × 1080 |
| | Contrast Ratio | 4000:1 | 3000:1 | 4000:1 | 3000:1 |
| | Luminance | 700cd/m ² | 500cd/m ² | 700cd/m ² | 500cd/m ² |
| | Aspect Ratio | 16:9 | 16:9 | 16:9 | 16:9 |
| | Response Time | 8ms | 8ms | 8ms | 8ms |
| | Chroma | 16.7M | 16.7M | 16.7M | 16.7M |
| | Viewing Angle | 178°(H) / 178°(V) | 178°(H) / 178°(V) | 178°(H) / 178°(V) | 178°(H) / 178°(V) |
| Control | Input | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC |
| | output | 1 × BNC | 1 × BNC | 1 × BNC | 1 × BNC |
| | Control | RS232, IR | RS232, IR | RS232, IR | RS232, IR |
| | Other Interface | USB | USB | USB | USB |
| Power | Power Input | AC100~240V (50~60Hz) | AC100~240V (50~60Hz) | AC100~240V (50~60Hz) | AC100~240V (50~60Hz) |
| | Max. Consumption (W) | 260W | 260W | 230W | 230W |
| Operation | Lifetime | 50,000hrs | 50,000hrs | 50,000hrs | 50,000hrs |
| | Operating Temp. (°C) | 0°C - 50°C | 0°C - 50°C | 0°C - 50°C | 0°C - 50°C |
| | Storage Temp. (°C) | -20°C - 60°C | -20°C - 60°C | -20°C - 60°C | -20°C - 60°C |
| | Operating Humidity (RH) | 10%-85% RH Non-Condensing | 10%-85% RH Non-Condensing | 10%-85% RH Non-Condensing | 10%-85% RH Non-Condensing |
| | Storage Humidity (RH) | 5%-95% RH Non-Condensing | 5%-95% RH Non-Condensing | 5%-95% RH Non-Condensing | 5%-95% RH Non-Condensing |

• 3.5mm Series LCD Display Screen

| Model | | JL-L1-46H35 | JL-L1-46L35 | JL-L1-49L35 | JL-L1-55H35 | JL-L1-55L35 |
|-----------|-------------------------|---|---|--|---|---|
| | |  |  |  |  |  |
| Physical | Diagonal | 46" | 46" | 49" | 55" | 55" |
| | Bezel Width | 3.5mm | 3.5mm | 3.5mm | 3.5mm | 3.5mm |
| | Panel Type | S-PVA | S-PVA | S-PVA | S-PVA | S-PVA |
| | Backlight | Direct LED | Direct LED | Direct LED | Direct LED | Direct LED |
| | Display Size | 1018.08 × 572.67mm | 1018.08 × 572.67mm | 1073.8 × 604mm | 1209.6 × 680.4mm | 1209.6 × 680.4mm |
| | Dimensions | 1021.98 × 576.57 × 70mm | 1021.98 × 576.57 × 70mm | 1075.72 × 605.94 × 74.1mm | 1213.5 × 684.3 × 67.5mm | 1213.5 × 684.3 × 67.5mm |
| | Net Weight | 18kg | 18kg | 20kg | 21kg | 21kg |
| | Gross Weight | 20.5kg | 20.5kg | 22kg | 23.5kg | 23.5kg |
| Display | Resolution | 1920 × 1080 | 1920 × 1080 | 1920 × 1080 | 1920 × 1080 | 1920 × 1080 |
| | Contrast Ratio | 4000:1 | 3000:1 | 3000:1 | 4000:1 | 3000:1 |
| | Luminance | 700cd/m ² | 500cd/m ² | 500cd/m ² | 700cd/m ² | 500cd/m ² |
| | Aspect Ratio | 16:9 | 16:9 | 16:9 | 16:9 | 16:9 |
| | Response Time | 8ms | 8ms | 8ms | 8ms | 8ms |
| | Chroma | 16.7M | 16.7M | 16.7M | 16.7M | 16.7M |
| | Viewing Angle | 178°(H) / 178°(V) | 178°(H) / 178°(V) | 178°(H) / 178°(V) | 178°(H) / 178°(V) | 178°(H) / 178°(V) |
| Control | Input | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC | 1 × DVI, 1 × VGA, 1 × HDMI, 1 × BNC |
| | output | 1 × BNC | 1 × BNC | 1 × BNC | 1 × BNC | 1 × BNC |
| | Control | RS232, IR | RS232, IR | RS232, IR | RS232, IR | RS232, IR |
| | Other Interface | USB | USB | USB | USB | USB |
| Power | Power Input | AC100~240V (50~60Hz) | AC100~240V (50~60Hz) | AC100~240V (50~60Hz) | AC100~240V (50~60Hz) | AC100~240V (50~60Hz) |
| | Max. Consumption (W) | 260W | 260W | 260W | 260W | 260W |
| Operation | Lifetime | 50,000hrs | 50,000hrs | 50,000hrs | 50,000hrs | 50,000hrs |
| | Operating Temp. (°C) | 0°C - 50°C | 0°C - 50°C | 0°C - 50°C | 0°C - 50°C | 0°C - 50°C |
| | Storage Temp. (°C) | -20°C - 60°C | -20°C - 60°C | -20°C - 60°C | -20°C - 60°C | -20°C - 60°C |
| | Operating Humidity (RH) | 10%-85% RH Non-Condensing | 10%-85% RH Non-Condensing | 10%-85% RH Non-Condensing | 10%-85% RH Non-Condensing | 10%-85% RH Non-Condensing |
| | Storage Humidity (RH) | 5%-95% RH Non-Condensing | 5%-95% RH Non-Condensing | 5%-95% RH Non-Condensing | 5%-95% RH Non-Condensing | 5%-95% RH Non-Condensing |

Splicing Processor

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Splicing Processor is a high performance image processing platform, between video source and transmitter. It can support multiple video signals' input, output and real-time processing, work in the core position of whole system. User can select different i/o card by inserting into different chassis. Options of chassis are 4U, 8U, 14U and 22U.

The product is equipped with high volume, high speed FPGA array and CrossPoint digital multi-bus routing exchange technology, which guarantees all input signal that are processed in real-time and high data uniformity without delay, discretization or frame loss, which offers best-in-class image. In support of multiple screen control with different resolutions, separated display and multi-channel video input displayed anywhere in video wall, all windows can be moved, overlapped, zoomed in and out and PIP displayed freely.



MSP100-X1-4U



MSP100-X1-8U



MSP100-X1-14U



MSP100-X1-22U

• Splicing Processor

| Model | | MSP100-X1-4U | MSP100-X1-8U | MSP100-X1-14U | MSP100-X1-22U |
|--------------|-------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| General | SPEC | 19-inch, 4U | 19-inch, 8U | 19-inch, 14U | 19-inch, 22U |
| | Dimensions (mm) | 438 × 316 × 178 (mm) | 438 × 316 × 356 (mm) | 438 × 316 × 623 (mm) | 438 × 316 × 979 (mm) |
| Card | Input Slot | 6 | 13 | 24 | 32 |
| | Output Slot | 2 | 4.5 | 9 | 18 |
| | Max. Input Channel | 16 × 1080p + 4 × 4K / 24 × 1080p | 36 × 1080p + 8 × 4K / 52 × 1080p | 64 × 1080p + 16 × 4K / 96 × 1080p | 56 × 1080p + 36 × 4K / 128 × 1080p |
| | Max. Output Channel | 4 × 4K / 8 × 1080p4 | 9 × 4K / 18 × 1080p | 18 × 4K / 36 × 1080p | 36 × 4K / 72 × 1080p |
| Control | LAN Port | 1 × RJ-45 port, Ethernet 10/100Base-T | 1 × RJ-45 port, Ethernet 10/100Base-T | 1 × RJ-45 port, Ethernet 10/100Base-T | 1 × RJ-45 port, Ethernet 10/100Base-T |
| | Debug port | 2 × RS232 port | 2 × RS232 port | 2 × RS232 port | 2 × RS232 port |
| Power Supply | Redundant Power Supply | - | Supported | Supported | Supported |
| | Hot-swap | Supported | Supported | Supported | Supported |
| | Module | 1 | 1 (the second power is optional) | 2 | 2 |
| | Input Voltage | AC110~220V (50~60Hz) | AC110~220V (50~60Hz) | AC110~220V (50~60Hz) | AC110~220V (50~60Hz) |
| | Max Consumption | 200W | 420W | 600W | 800W |
| Operation | MTBF | 30,000hrs | 30,000hrs | 30,000hrs | 30,000hrs |
| | MTTR | 10s | 10s | 10s | 10s |
| | Operating temp. (°C) | -10 ~ +55 | -10 ~ +55 | -10 ~ +55 | -10 ~ +55 |
| | Operating humidity (RH) | 10~90% RH non-condensing | 10~90% RH non-condensing | 10~90% RH non-condensing | 10~90% RH non-condensing |
| | Shockproof Level | ISTA 1A carton | ISTA 1A carton | ISTA 1A carton | ISTA 1A carton |
| | Cooling | Air cooling component | Air cooling component | Air cooling component | Air cooling component |

• Cards

| Model | Type | Channel | Port | Resolution |
|-------|-------------------|---------|--------------------------------|--|
| D-IC | Input | 4 | DVI-D | 1080p |
| R-IC | Input | 4 | VGA | 1080p |
| H-IC | Input | 4 | HDMI | 1080p |
| N-IC | Input | 4 | Twisted-pair | 1080p |
| F-IC | Input | 4 | Optical | 1080p |
| V-IC | Input | 16 | CVBS(2 DVI convert to 16 CVBS) | NTSC/PAL |
| W-IC | Input | 4 | CVBS | NTSC/PAL |
| S-IC | Input | 4 | SD / HD / 3G SDI | 1080p |
| R+IC | Input | 4 | YPbPr | 1080p |
| HD-IC | Input | 2 | Dual-link DVI | 4K |
| UH-IC | Input | 2 | HDMI 1.4 | 4K |
| DP-IC | Input | 2 | DP | 4K |
| HI-IC | Input | 2 | RJ45 | 1080p |
| D-OC | Output | 4 | DVI-I / VGA | 1080p |
| H-OC | Output | 4 | HDMI | 1080p |
| N-OC | Output | 4 | Twisted-pair | 1080p |
| S-OC | Output | 4 | SDI | 1080p |
| F-OC | Output | 4 | Optical | 1080p |
| UH-OC | Output | 2 | HDMI 1.4 | 4K |
| HD-OC | Output | 2 | Dual-link DVI | 4K |
| 02PV | Signal premonitor | 128 | RJ45 | Supports browse channel signal source real-time by computer software |



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