Q 16 Pro

4K Multi-Layer Videowall Processor

RGBlink®
Q16 Pro

4K multilayer videowall solution

Q16pro Gen2 1U edition supports up to 8 inputs, including HDMI 1.3, SD/HD/3G SDI, HDMI2.0, H.264/265 for 2K and 4K signals. The standard unit comes with 4 HDMI 1.3 outputs and builds with local front control panel and remote control interfaces with RS 232 and ethernet ports. Q16pro is available to be remote controlled by XPOSE or 3rd party APP / controller by open API.

Q16pro Gen2 1U combine rugged design, class-leading video processing and image quality, ultra-low latency, versatile 4K connectivity, livestreaming capabilities, and unmatched ease of use to meet the requirement of the modern commercial display systems application, including live corporate meetings, hybrid events, worship productions, or large-scale LED video wall installations.

Its outputs supports up to 4 independent displays, and 8 layers with arbitrary roaming capacity and each layer can cross over each output without layer counting up.

2K Connectivity
Input module supports up to 2 pieces of 2K, each module signal supports HDMI 1.3, SD/HD/3G SDI or H.264/H.265. Output module supports 1 pieces 2K only and HDMI 1.3 outputs.

4K Connectivity
Input module supports up to 2 pieces of 4K, each module signal supports HDMI 2.0, DP 1.2 (released on 2023). Output module supports 1 pieces 2K only and with 4 HDMI 1.3 outputs together to be a full 4K.

Mixed Input Connectivity
As each input module is dedicated with the same independent input interfaces, to achieve mixed signal inputs need to install input modules separately. Take input HDMI 1.3 input module and input HDMI 2.0 input module to support 2K and 4K inputs mixed.

Custom Multi-Layer Splicing
The 4-way HDMI 1.3 output can be spliced in any combination according to project requirements, or can be spliced in any multi-window display template.

Switch Seamlessly
Q16pro Gen2 1U supports seamless switching in CUT and zero delay. Each input can be switched seamlessly on each output. Each Preset (bank) can be switched seamlessly in between.

Up to 8 layers
Up to 8 layers can be roamed as will, and no layer is consumed across outputs. It means layer will not count up like the old version. The old version layer counts up once cross each output boarder.

Powerful Configuration & Control
Remote configure and control Q16pro Gen2 1U by XPOSE for Windows and macOS. Control Q16pro Gen2 1U over Ethernet with either XPOSE or RGBlink OpenAPI which provides extensive integration opportunities with virtually any 3rd party control.
**Test Pattern**

Q16pro Gen2 1U includes an on board Test Pattern generator with common patterns such as colour bars, pure colors.

**Logo Programable**

Q16pro Gen2 1U supports one logo to be overlayed over the video, will not take layer, resolution up to 4K and in BMP format, logo can be any position of the output display management range.

**4K2K Splicing**

Input a 4K UHD signal and splice tear-free across multiple 2K outputs, another 4 pieces 2K inputs work as layers on the top, pixel-to-pixel and ideal for 4K LED display applications.

**8K1K Splicing**

Create a display up to 8K1K across four outputs with a spliced background source and up to supported 7 2K PIP layers on any position.

**Dual 4K1K Splicing**

Through the splicing mode, can overlay any two 2K layers on a 4K1K background to achieve multi-screen splicing display.

**2K Presentation**

Up to in total of 8 layers may be used on a single 2K HDMI output display. With a dedicated background layer from one of the input (One 4K input or 1 dedicated 2K inputs to be used for this live input), add up to 7 layers on the top in different presets. If with saved background logo picture, can add up to 8 layers on the top.

**4K1K Presentation**

Create a 4K1K canvas with background and apply up to supported 7 2K PIP layers on any position.

**6K1K Presentation**

With a dedicated background layer spliced across three 2K outputs to form a 6Kx1K canvas add up to supported 7 2K PIP layers on any position.
## Specification

### Connectors

**Input**
- 2 slots, up to 8 inputs
  - Standard with HDMI 1.3 | 4+HDMI-A
  - Optional
    - SDI (SD/HD/3G)
    - DVI
    - DP 1.2 | HDMI 2.0
    - IP
  - 1 x Host (with Communication Module),
  - 1 × HDMI 1.3 Input Module,
  - 1 × HDMI 1.3 Output Module

**Output**
- Standard with HDMI 1.3 | 4+HDMI-A
  - Optional
    - DP 1.2
    - DVI
    - HDMI 2.0
  - 1 x Host (with Communication Module)

### Performance

- **Input Resolutions**
  - SDI: 1280x720p @ 50/60 |
  - HDMI 1.3: 1920x1080p @ 23.98/24/25/29.97/30/50/59.94/60
  - DP 1.2 | HDMI 2.0: 1920x1080p @ 23.98/24/25/29.97/30/50/59.94/60 |
  - VESA: 3840x2160p @ 25/30/50/60

- **Output Resolutions**
  - SDI: 1920x1080p @ 23.98/24/25/29.97/30/50/59.94/60 |
  - HDMI 1.3: 1920x1080p @ 23.98/24/25/29.97/30/50/59.94/60 |
  - DP 1.2 | HDMI 2.0: 1920x1080p @ 23.98/24/25/29.97/30/50/59.94/60 |

- **Supported Standards**
  - SDI: SD/HO/3G
  - HDMI: 2.0
  - DisplayPort: 1.2
  - DVI: Dual Link

### Power

- **Input Voltage**
  - AC 100-240V, 50/60Hz
- **Max Power**
  - 65W

### Environment

- **Temperature**
  - -5°C ~ 45°C
- **Humidity**
  - 10% ~ 85%

### Physical

- **Dimension**
  - Net: 490mm x 363.2mm x 55mm
  - Packaged: 530mm x 440mm x 120mm
- **Weight**
  - Net: 4.8kg
  - Packaged: 6.3kg

### Order Codes

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<th>Product Code</th>
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### Dimensions