Any Angle Rotation & Edge Blending Processor
For creative video display applications anywhere, RGBlink FLEX RS1 extends the possible. FLEX RS1 adds new levels of flexibility to hardware based video solutions. With multiple operation modes, the four FLEX RS1 outputs may be utilise for advanced rotation, blending and splicing from a choice of 4K inputs.

Each output is resolution independent. In rotation applications, each output can individually be rotated in single degree increments, positioned on a virtual canvas or pixel space with support for variable pixel densities.

As a blending processor for projection, variable edge blending is configurable to produce panoramic displays or arrays in any configuration.

For splicing applications – ideal for LED displays – FLEX RS1 is an easy to use compact processor for up to 8K x 1K.

**4K Digital Input**
FLEX RS1 features the RGBlink 4K60 digital input module for high resolution digital media sources to be connected via Display-Port or HDMI. For rotation and blending applications, the 4K input provides for high quality visual signals to be used with minimum need for upscaling.

**RGBlink ARO™**
Advanced Rotation and blending Output module features four DVI outputs with wide processing capability enabling sophisticated real time video display independent of source video.
Advanced Rotation

FLEX RS1 enables displays to be physically positioned and rotated in fine single degree increments, with the processor mapping and delivering video content to the display surface based on position in pixel space. Variable density allows displays of varying sizes to be combined to form creative video display solutions.

Each of the four outputs may be configured individually with rotation in 1 degree positioning. Video layered and mapped across the output displays.

Overlapping displays are supported in any arrangement, opening up a wide range of application possibilities.

Each output can be configured independently allowing displays of multiple sizes and pixel densities to be supported.
Variable Edge Blending
As an edge blending processor, FLEX RS1 may be configured to output video enabling up to four projectors to be arranged combined to form a single display surface. Area of interest is also selectable allowing variable projection distances and non-linear overlaps.

4K Video Wall Splicing
Adding to the versatility of FLEX RS1 is the facility to use the processor as a 4K video wall controller with outputs able to configured independently for a range of display possibilities.

Matrix Routing
Take advantage of all four inputs, routing scaling/converting to each of the four DVI outputs. Each output is resolution indepen-dent.
**Multi-Mode Operations**

Suitable for a wide range of usage applications from installation to events, for creative rotation to blending and splicing, FLEX RS1 is a self-contained solution that simplifies advanced operations with a single device providing high level commonality across diverse applications.

**Independent Output Resolution**

Each of the four outputs is resolution independent.

**Flip/Mirror**

Outputs may be flipped in support of rear-projection applications or similar.

**Scale Crop & Position**

Position displays on virtual canvas, select area of interest to set density and relative display size.

**ArtNet for Performance**

FLEX RS1 has ArtNet built in, with an extensive DM512 control profile, RS1 may be dynamically controlled from DMX show controllers allowing for real-time animation applications.

**Integrate with OpenAPI**

Control FLEX RS1 remotely from third party devices and applications with RGBlink OpenAPI UDP command set.

**Familiar XPOSE Configuration**

FLEX RS1 maybe connected via USB to a computer running XPOSE for control and configuration within the RGBlink universal application platform. The intuitive visual interface templates and interacts with FLEX RS1 for full control and configuration.
### Specification

#### Connectors

<table>
<thead>
<tr>
<th>Input</th>
<th>1 slots up to 4 inputs</th>
<th>Standard with 4K@60Hz Input Module</th>
<th>1 x DVI</th>
<th>2xHDMI-A</th>
<th>1xDisplayPort</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>1 slots, up to 4 outputs</td>
<td>Standard with ARO Rotation Module</td>
<td>4 x DVI-I</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RS485</td>
<td>In</td>
<td>Out</td>
<td>2 × RJ45 (Ethercon)</td>
</tr>
</tbody>
</table>
#### Communication

Artnet | In | Link |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2 × RJ45</td>
</tr>
</tbody>
</table>

#### Performance

- **Input Resolutions**
  - DVI | HDMI 1.4
  - SMPTE: 720p@59.94/60 | 1080p@59.94/60 | 1080p@59.94/60 | 2160p@30
  - VESA: 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x960@60 | 1280x1024@60 | 1400x1050@60 | 1600x1050@60 | 1600x1200@60 | 1920x1080@59.94/60 | 2560x960@90 | 3840 × 2160@90
  - HDMI 2.0 | DP 1.2
  - SMPTE: 720p@23.98/24/25/29.7 | 30/50/59.94/60 | 1080p@59.94/60 | 2160p@30/60
  - VESA: 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x960@60 | 1280x1024@60 | 1360x768@60 | 1366x768@60 | 1400x900@60 | 1600x1050@60 | 1600x1200@60 | 1680x1050@60 | 1920x1080@60 | 1920x1200@60 | 2048x1080@60 | 2048x1152@60 | 2560x1080@60 | 3840 × 2160@90
- **Output Resolutions**
  - Select from below or configure customised
  - DVI
  - SMPTE: 720p@59.94/60 | 1080p@59.94/60 | 1080p@59.94/60
  - VESA: 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x960@60 | 1280x1024@60 | 1360x768@60 | 1366x768@60 | 1400x900@60 | 1600x1050@60 | 1600x1200@60 | 1680x1050@60 | 1920x1080@60 | 1920x1200@60 | 2048x1080@60 | 2048x1152@60 | 2560x1080@60 | 3840 × 2160@90
- **Supported Standards**
  - HDMI 2.0
  - DVI Dual Link
  - DisplayPort 1.2
- **Power**
  - Input Voltage: AC 90-264V 50/60Hz
  - Max Power: 65W
- **Environmental**
  - Temperature: 0°C – 40°C
  - Humidity: 10% - 85%
- **Physical**
  - Weight
    - Nett: 2.5kg
    - Packaged: 5.73kg
  - Dimension
    - Nett: 480mm×438mm×404mm
    - Packaged: 540mm×460mm×135mm

### Order Codes

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-0001-01-0</td>
<td>FLEX RS1</td>
</tr>
</tbody>
</table>

### Dimensions

![Dimensions Diagram](image-url)