High Performance USB Virtual Graphics

DisplayLink USB virtual graphics technology is the industry-leading solution for easy display and docking station connectivity to notebooks, netbooks, and desktop PCs. The DisplayLink DL-1x5 Series of chips allows manufacturers of USB 2.0-based peripherals, monitors, and projectors to quickly and economically build a variety of innovative display products.

Chips and Software Features

- Fully supports Windows 10
- High performance universal USB video interface
- Low BOM cost
- Universal interface and power with USB cable
- Compatible with new USB Type-C or legacy USB connectors

Output / Display Compatibility

- High-speed USB 2.0-compliant input
- Multiple video outputs – one selected video output at a time
- Multiple video outputs including DVI (TMDS), analog DSUB (VGA)
- LVDS output for direct connection to an LCD panel
- Supports resolutions up to 2048 x 1152 including full HD (1080p)

Product Applications

**USB Graphics Adapters**

Connect a TV or monitor to a PC without having to add an additional graphics card.

**USB Monitors**

Add monitors - including mobile monitors - without need for a discrete graphics card.

**USB Projectors**

Quickly set up and connect to a projector through USB or Wireless USB.

**Embedded Designs**

Embed graphical displays where previously it was impossible.
DisplayLink DL-1x5 Series
High Performance USB Virtual Graphics

DisplayLink Certified Plug and Display

DisplayLink Certified products are thoroughly tested in our labs to guarantee interoperability with the vast DisplayLink USB graphics ecosystem. Regular SW updates mean a lifetime of performance updates. Look for the DisplayLink Certified Plug and Display Certified Logos.

Packaging

- 19 mm x 19 mm
- 1 mm ball pitch
- 276-ball PBGA, lead free (RoHS compliant and industry “Green” conformance)

Reference Designs

DisplayLink Supplies a complete set of schematics and PCB layout information along with firmware and OS drivers to complete a bus powered or mains powered monitor design

DisplayLink Compression – DL2

DisplayLink’s intelligent image processing algorithms, coupled with the high performance (DDR) memory interface and the DisplayLink DL2 adaptive compression scheme ensure a highly interactive, low latency user experience that is nearly indistinguishable from a traditional monitor connection. This allows smooth window and cursor movement as well as support for full-screen video playback.

Supported Platforms

- **Microsoft Windows™**
  - Windows 10
  - Windows 8, 8.1
  - Windows 7
- **Apple® Mac® OS**
  - OS X 10.8 onwards
- **Google Android™**
  - v5.0 Lollipop onwards
- **Ubuntu**
  - Ubuntu 14.10 onwards
- **Chrome OS**
  - Chrome OS R51 onwards

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<tbody>
<tr>
<td><strong>Target products</strong></td>
<td>Mini-monitors</td>
<td>Entry-level monitors &amp; projectors</td>
<td>Entry-level docks, mainstream monitors &amp; adapters</td>
<td>High-end monitors, docks &amp; adapters</td>
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<tr>
<td><strong>Maximum resolution</strong></td>
<td>1024x600</td>
<td>1280x1024</td>
<td>1600x1200</td>
<td>1920x1200</td>
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<tr>
<td></td>
<td></td>
<td>1440x990 (wide)</td>
<td>1920x1080 (wide)</td>
<td>2048x1152 (wide)</td>
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<tr>
<td>Integrated DVI (TMDS) and analog DAC</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Integrated USB 2.0</td>
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<tr>
<td>Dual core decoded engines</td>
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<tr>
<td>DisplayLink DL2 compression</td>
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<td>✓</td>
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<tr>
<td>Integrated LVDS</td>
<td>✓</td>
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