

DisplayLink DL-1x5 Series

High Performance USB Virtual Graphics



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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.

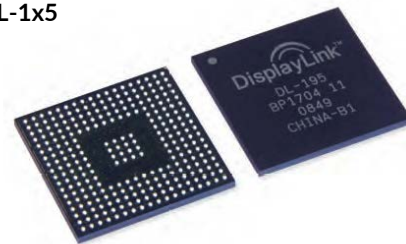
Chips and Software Features

- 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)

DL-1x5



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.



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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



Product Feature	DL-115	DL-125	DL-165	DL-195
Target products	Mini-monitors	Entry-level monitors & projectors	Entry-level docks, mainstream monitors & adapters	High-end monitors, docks & adapters
Maximum resolution	1024x600	1280x1024 1440x990 (wide)	1600x1200 1920x1080 (wide)	1920x1200 2048x1152 (wide)
Integrated DVI (TMDS) and analog DAC		✓	✓	✓
Integrated USB 2.0	✓	✓	✓	✓
Dual core decoded engines			✓	✓
DisplayLink DL2 compression	✓	✓	✓	✓
Integrated LVDS	✓	✓	✓	✓