



DL-120/DL-160

Single Chip device for USB connected display applications

APPLICATIONS

- Display accessories
- Docking stations
- USB displays
- Networked projectors

FEATURES

- Compatible with all CRT and Flat Panel monitors
- Standard and wide screen aspect ratios
- 32 bit True Color depth for high quality images
- High definition displays - up-to UXGA 1600 x 1200
- Flexible display connectivity - analog input, DVI or FPI (LVDS)
- Highly interactive user experience - keyboard, mouse and display
- Full flexibility to clone or extend desktop display space
- Static, interactive and video content
- High performance (DDR) memory interface
- Auto display identification using VESA compliant protocols
- Fast and easy install - Microsoft WHQL signed drivers
- Fully USB 2.0 compliant
- Ultra low power

PACKAGE

- 27 mm x 27 mm,
- 256-ball PBGA, lead free
- 3.3V/2.5V IO, 1.2V core

Introducing the DisplayLink DL-120/DL-160 chips

The DisplayLink DL-120/DL-160 chips eliminate the need for physical graphics cards and enable users to use the ubiquitous USB connection standard to display high quality graphics on connected monitors.

DisplayLink also allows users to easily add additional displays to any laptop or PC - without the burden of opening the PC, adding a graphics card and reconfiguring the system.

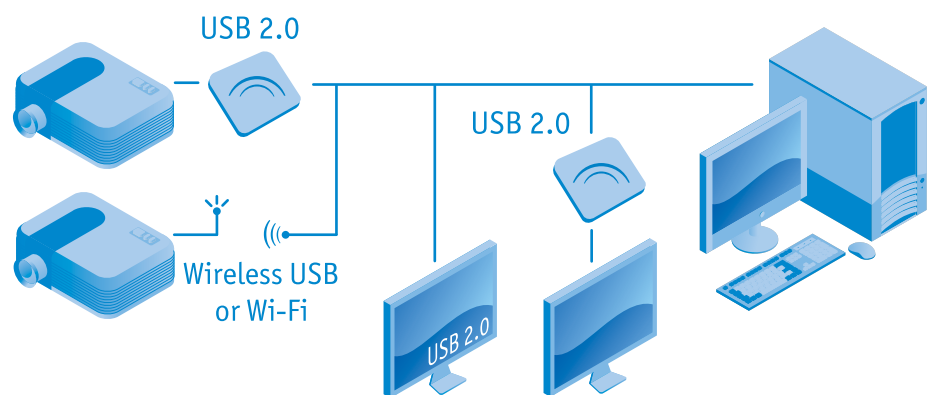
By reducing the connection process to a simple USB cable, DisplayLink provides a unique solution to instantly clone or extend a desktop onto another display.

The DisplayLink DL-120/DL-160 are provided with a video port - analog input, DVI or FPI (LVDS) - on one side and USB connectivity on the other. They are simple to install, easy to use and integrate invisibly within the Windows environment.

New applications for USB connected displays and accessories

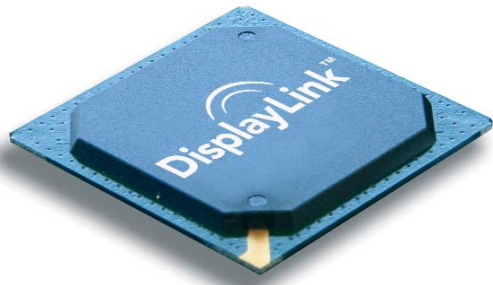
Users of both desktop and laptop computers need either multiple or larger displays to increase their productivity. With DisplayLink, they can add one or more displays to their laptop or desktop PC in just minutes.

Solution designs range from integrating a DisplayLink DL-120/DL-160 into the display, to standalone accessories such as docking stations.



About DisplayLink

DisplayLink is a software and semiconductor company that has developed unique technology for connecting displays to computers. DisplayLink's technology allows any number of displays to be connected to a single PC, either wirelessly or by wire, and to be networked over long distances from the source. The company is headquartered in Palo Alto, CA with R&D activity located in Cambridge, UK.



HIGH QUALITY IMAGE WITH ALL DIGITAL DISPLAY PATH

The DisplayLink DL-120/DL-160 support 16 bit and 32 bit True Color and high definition screen resolutions of up to UXGA 1600 x 1200 - supporting high quality image presentation and DVD quality video playback.

The DisplayLink chip can be configured to connect using a DVI, analog input or FPI (LVDS) interface - providing any laptop or desktop PC with either an all digital high quality display path for images, or a standard analog video port.

INTERACTIVE USER EXPERIENCE

DisplayLink's intelligent image processing algorithms, high performance (DDR) memory interface and lossless compression scheme ensure a highly interactive, ultra-low latency user experience - moving windows around the desktop is smooth, with no trailing and tearing of windows and display quality is maintained for all applications, including those that are CPU intensive.

FLEXIBLE DESKTOP MANAGEMENT (CLONE AND EXTEND)

By default, the DisplayLink DL-120/DL-160 will replicate the primary monitor onto another display - for example in a docking station application. The DisplayLink chips can also be easily configured to extend the desktop space to view, compare and edit multiple documents at the same time. All DisplayLink connected monitors can be plugged and unplugged without the need for system reconfiguration - making the process of adding, removing and docking displays with a computer fast and trouble-free.

FAST AND EASY TO INSTALL

DisplayLink drivers are fully signed by Microsoft (WHQL), allowing for a fast and automatic installation. The DisplayLink DL-120/DL-160 determines the type, resolution and key features of the display when connecting, to ensure a fast and error free set-up.

FULLY INTEGRATED INTO WINDOWS

The DisplayLink DL-120/DL-160 are fully integrated into the Windows system and appear as a virtual graphics card (VGC). All management of the DisplayLink chips is performed through the Windows Control Panel interface - eliminating the need for proprietary and language specific user and configuration tools.

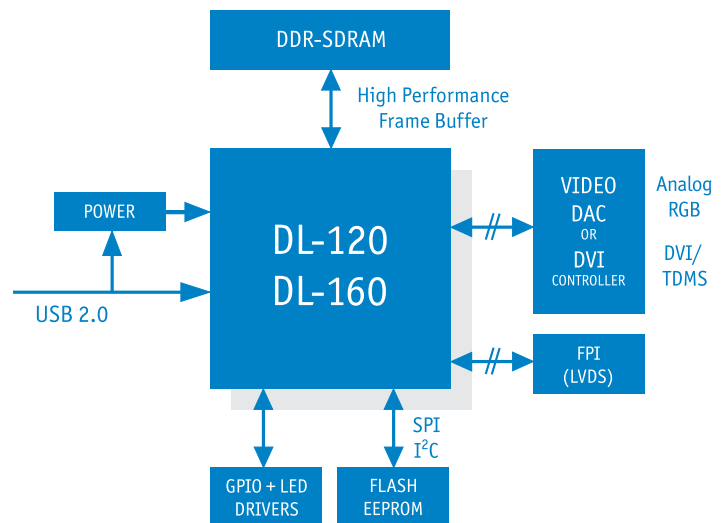
FULLY USB COMPATIBLE

DisplayLink conforms fully to the USB 2.0 specification and can be connected directly to a PC or through a USB 2.0 hub device. The DisplayLink chips can be powered directly from the USB connection to minimize the need for additional power cables.

DISPLAYLINK PRODUCT TABLE

	DL-120	DL-160
Target Market	Mainstream User	Performance User
Description	Standard display connectivity for analog input and resolutions up to SXGA	High performance all digital display connectivity with DVI and for resolutions up to UXGA
Connectivity - analog input	✓	✓
Connectivity - DVI	✓	✓
Connectivity - FPI (LVDS)	✓	✓
USB 2.0	✓	✓
Resolution	SXGA (1280 x 1024) SXGA+ (1400 x 1050)	UXGA (1600 x 1200) WSXGA+ (1680 x 1050)
Color Depth	32 bit True Color	32 bit True Color

DISPLAYLINK SYSTEM DIAGRAM



SYSTEM CONNECTIVITY

- Video DAC or DVI controller
- DDR memory
- EEPROM, Flash

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