

VIDEOMAX... HDMI and DVI single link to dual link conversion

Many technologies have been developed for the remote operation of computer equipment, such as: *Thin Client, PC over IP and Cloud computing*. Many of these technologies are limited to DVI single link display screens, below 1920 x 1200 resolutions.

The Thruput Videomax enables many of these devices, and HDMI equipped laptops to support high-resolution monitors and the new generation of high-resolution projectors, which operate at or above 2560 x 1600 resolutions. In this case, the full screen resolution is addressable with a screen refresh rate of 60 Hz.



The Thruput VIDEOMAX Graphics Accelerator enables PCoIP portals, Thin clients or HDMI equipped laptops to drive high-resolution monitors and projectors

PCoIP Portals

In this application, the Videomax is used to link each video output from the PCoIP portal to an individual monitor or projector.

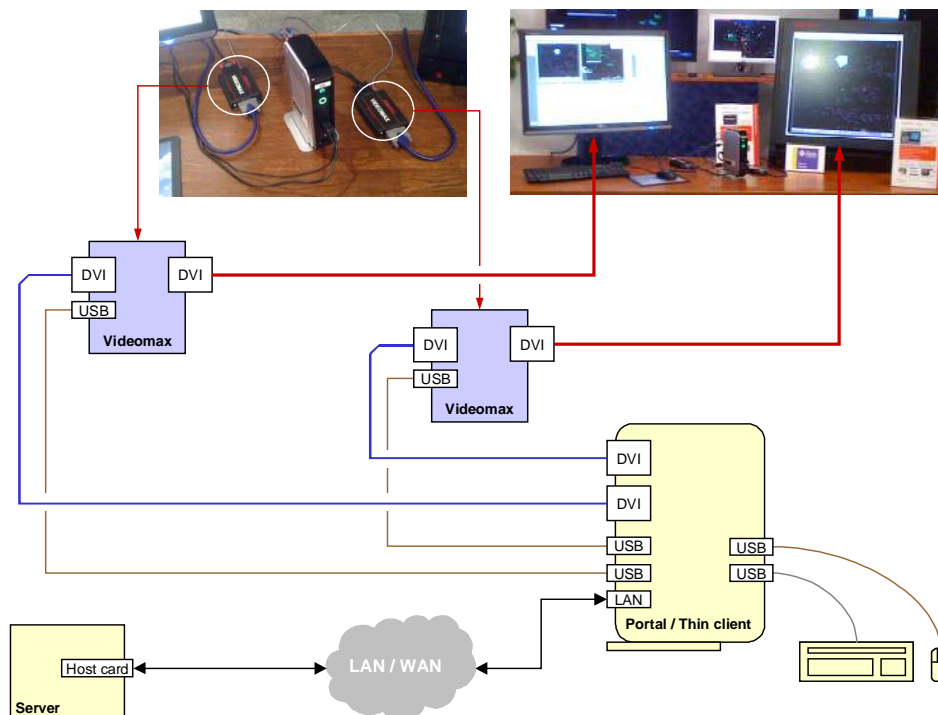
If the PCoIP portal has multiple video ports, then each one may be used, as shown below:



A dual output PCoIP portal from EVGA is shown driving both 28" 2048 x 2048 and 30" 2560 x 1600 monitors using Videomax.



A dual output PCoIP portal from ClearCube is shown driving a 28" 2048 x 2048 monitor using Videomax as well as a 27" 1920 x 1200 touch screen.



A DVI cable is used to link the PCoIP Portal or Thin Client with the Videomax, and DVI cables thereafter.

The unit is powered from a USB cable.

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Specification

- Supported resolutions: Any
- Commonly used resolutions:
 - 2048 x 2048
 - 2560 x 1600
 - 2560 X 1440
 - 2160 x 1920
- The full screen resolution is addressable with a screen refresh rate of 60 Hz.
- Power: USB 2
- Size: 11 x 7.5 x 2.5 cm
- Weight: 110 g
- The unit is an in-cable solution.
- Independent of operating system.
- No software required, plug and play operation.



In this photograph an ASUS laptop is connected by VIDEOMAX to an LG 30" 2560 x 1600. The display manager identifies each of the screens.

Thin Clients

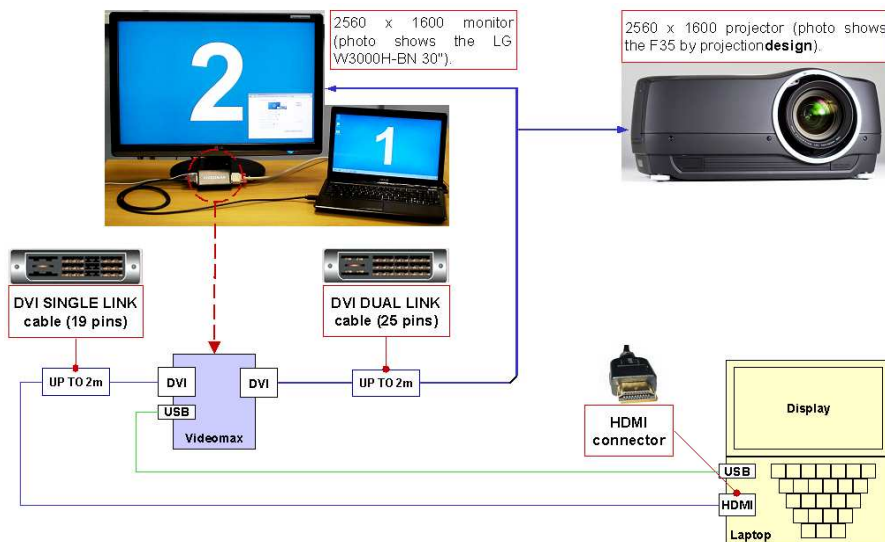
For Thin Client devices, the Videomax is used to link each video output from the Thin Client to an individual monitor or projector, as shown in the photograph.



A Thin Client device from Dell is shown using VIDEOMAX to drive a 30" 2560 x 1600 monitor.

Laptops

The Videomax is used to link the external HDMI port of laptop to a single monitor or projector. Depending on the laptop's capability, this mode makes the additional high-resolution display available as a clone display or as an extended desktop.



An HDMI to DVI cable is used to link a laptop with the Videomax, and DVI cables thereafter.

The unit is powered from a USB cable.