

Competence in Digital Visualisation

USB Controller Board with optional 4-/5-Wire Touch Controller

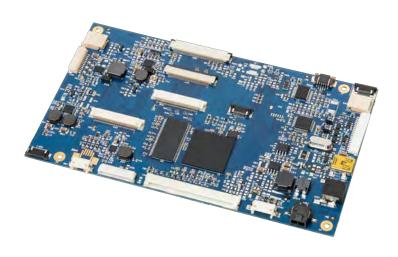
USB Controller Board with optional

- 4-/5-Wire Touch Controller
- LED-Driver
- LCD-TFT BIAS Power Supply

d.screen USB 2.0 is a best-price innovative board solution for high volume projects of USB 2.0 connected displays based on DisplayLink's DL1x5 device family. It is designed to act as a direct interface between USB 2.0 and LCD TFT displays from VGA up to Full-HD / WUSGA / QWXGA.

A highly efficient power-management makes the d.screen USB 2.0 the perfect solution for portable multifunctional monitors. In addition it supports low-cost LCD-TFT panels which requires LCD-BIAS voltages.

d.screen USB 2.0 is a member of the device product family. As any device of this series this board was designed to meet the extended requirements of embedded applications. A well-balanced hard-/ software combination affords a feature rich product at a competitive price.

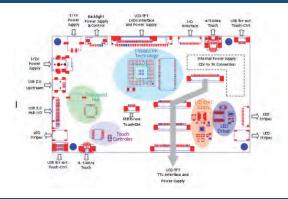


Features

- USB-Interface
- Supports Resolutions from VGA up to FHD/WUXGA/QWXGA
- Optional LCD TFT BIAS*) Power Supply
- Optional LED-Driver
- On-board USB 2.0 Highspeed Hub
- Optional On-board 4-/5-Wire touch-controller

*) LCD BIAS Generation and VCOM Buffer

The d.screen-USB-2.0 offers a very compact and small on-board power supply solution that provides all three voltages required by thin film transistor (TFT) LCD displays. This enables most cost effective designs which are based on low-cost LCD-TFT-Displays available from the consumer market



DisplayLink Technology - DL125/165/195

- Connect a PC with USB 2.0 port directly to any LCD TFT panel
- Lossless compression protocol
- DisplayLink DL2+ adaptive compression scheme ensures a highly interactive, ultra low latency user experience and allows smooth window and cursor movement as well as support for fullscreen video playback
- Dual DisplayLink DL2+ Decompression engines with DL165/195
- Fully Microsoft WHQL compliant
- Supports Windows
- Supports Apple Mac OS and Linux
- Mirror mode or extended desktop
- Supports resolutions up to Full-HD /WUXGA /QWXGA
- Optional Linux support
- Up to 6 Displays are supported either Hub or "daisy-chain" connected Supports screen rotations of 90° , 180° , 270° , 360°

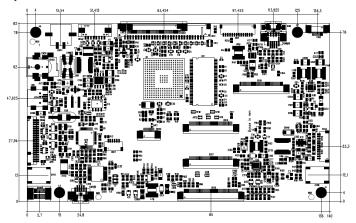


- USB 2.0 High Speed 4-Port Hub (up to 3 ports available)
- Low power consumption
- Multiple Transaction Translator (MTT) enables the maximum possible throughput
- Six, instead of two, non-periodic transaction buffers minimizes potential traffic jamming
- The whole design is based on state-machine-control to reduce the response delay time



- Connect a PC over USB 2.0 to a resistive 4-/5-Wire Touch Screen
- 10-bit Resolution
- Supports Windows, Mac and Linux

Specification



Supported Panel Resolutions (LVDS / TTL)

	DL-195	DL-165	DL-125
Maximum Resolution	1920 x 1200 2048 x 1152	1600 x 1200 1920 x 1080	1280 x 1024 1440 x 900
Integrated USB 2.0	✓	✓	✓
Dual Core Decode Engines	✓	✓	
DisplayLink DL 2+ Compression	✓	✓	✓

Touch Controller - optional

Resistive Technology 4/5-Wire (auto-detection)

Input Voltage

5/12V (Backlight voltage = Input Voltage)

Environmental

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- Operating Temperature: 0°C to 50°C
- Relative Humidity: 5%-85%, non condensing