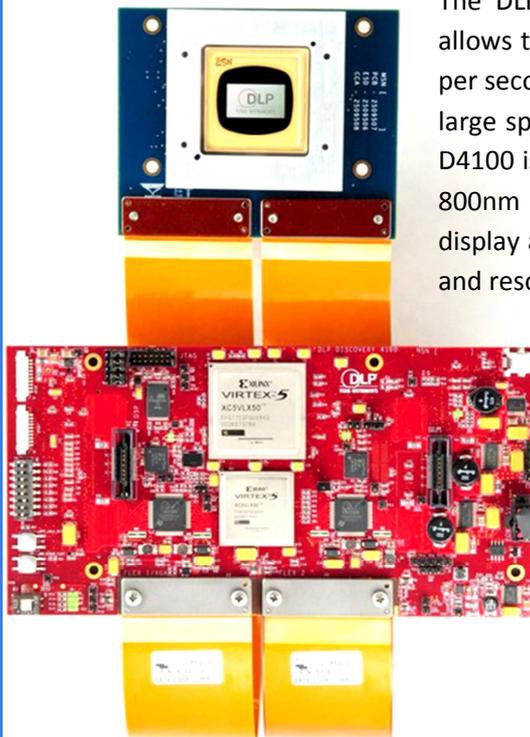


D4100

Developer Kit

The DLP® Discovery 4100 developer kits available from Texas Instruments are the most advanced spatial light modulator solutions on the market today. The D4100 kits provide unparalleled control and versatility at the pixel level empowering users like never before. Whether you are just beginning your research, replacing an existing technology, or looking to move your validated idea to large scale production, Wintech Digital and DLP® technology are your keys to success.



The DLP® micromirror devices are built using semiconductor processes. This allows the low mass mirror array to switch binary states at up to 32,552 frames per second using phased reset operations and is capable of efficiently reflecting a large spectral range of incident light due to its aluminum mirror chemistry. The D4100 is available in VIS and UV configurations covering a range of roughly 350-800nm and ideal for maskless lithography, rapid prototyping, microscopy, and display applications. The D4100 is available in several array sizes, mirror pitches, and resolutions to meet your budget and system requirements.

The powerhouse of the D4100 kit is the Xilinx Virtex 5 Applications FPGA (Field Programmable Gate Array). This FPGA enables end users to develop and program custom routines through Verilog or VHDL that push the D4100 to its limit of more than 32,000 frames per second. The Apps FPGA is able to process data received from the USB 2.0 or Avnet EXP interfaces on the D4100 circuit board either directly or from the onboard SODIMM memory module. Wintech offers the NSP family of interface solutions that complement the D4100 kit and allow for data transfer rates of more than 8Gbps through the EXP expansion connectors.

System Highlights

- 32,552 fps (XGA)/23,148 fps (1080p)
- Xilinx Virtex 5 LX50 Apps FPGA
- 400MHz 2xLVDS interface
- Cypress USB 2.0
- Avnet EXP Expansion Connectors
- DDR 2 SODIMM Memory Connector
- Explorer Starter GUI and Software
- Includes: D4100 PCB, DMD, Flex Cable , Remote Board, Power Supply, and TI KnowledgeBase Access

D4100



D4100 0.95" 1080p

D4100 0.7" XGA

	A	A
Package Type	A	A
Resolution (Pixels)	1920x1080	1024x768
Wavelengths	VIS, UV	VIS, UV
Pixel Pitch (um)	10.8	13.68
Frame Rate (binary fps)	23,148	32,552
Array size (in.)	0.95	0.7
Optical Fill Factor (%)	>91	>91

Wintech Digital Systems Technology Corporation is a Texas Instrument's DLP® Authorized Design House with locations in both China and the US. We are a full service engineering company with more than two dozen engineers that can design and manufacture all aspects of DLP® systems including electronics, optics, thermal management, laser light sources, and software.

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