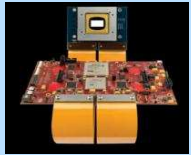
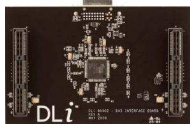






DLP Design House – Available Accessories

ABSTRACT

The DLP Design House Network is a group of independent, well-established companies that provide hardware/software integration, optics design, system integration, prototyping, manufacturing services, and turnkey solutions to a worldwide customer base to accelerate product development and time to market with DLP technology. This document contains a list of DLP based products and the companies from which the products are available.



Table 1. DLP® Discovery™ 4100 Accessories Available from DLP Design House Network

Electronics / Boards				
Design House	Product Name / Part #	Product Description	Image	Platform
DLi	DLi41xx Bundle Kit Series	Three Developer Kit Bundles packaged with the D2D DVI Interface, ALP-4.1 Basic or High-Speed Control SW, expanding capabilities of the D4100. Packages now feature Pixel Precision 3.0 Software for ease of use.		0.7" XGA and 0.95" 1080p (2 x LVDS)
DLi	D2D Interface Expansion (DMD-DVI)	DVI Interface for DLi4110 Bundle/D4100. Streams video to DMD (60Hz), 8-bit grayscale, 24-bit expansion (1,440Hz binary)		0.7" XGA and 0.95" 1080p
Wintech	W4100-0.7 XGA W4100-0.95 1080p	Identical performance and footprint of the D4100		Supports all 2xLVDS DMDs
Wintech	NSP	NSP 4.0 High Frame Rate PCIe Image Controller; Up to 8 Gbps bandwidth and 4GB of memory		0.7" XGA
Wintech	SDK	SDK software development platform for D4100/W4100 including high speed memory operation, triggers, and grayscale display		Supports all 2xLVDS DMDs
ViALUX	V-7000 - VIS V-7000 - UV	DLP® Board for DLP7000 DMD, visible and UVA, small footprint, +ALP-4.2 Controller 32Gbit on-board RAM, 22727 Hz global array switching, trigger, scrolling		0.7" XGA 1024x768 (DLP7000)






**Table 1. DLP® Discovery™ 4100 Accessories
Available from DLP Design House Network (continued)**

Electronics / Boards				
Design House	Product Name / Part #	Product Description	Image	Platform
ViALUX	V-9500 - VIS V-9500 - UV	DLP® Board for DLP9500 DMD, visible and UVA, +ALP-4.2 Controller 32Gbit on-board RAM, 22727 Hz global array switching, trigger, scrolling		0.95" 1080p 1920x1080 (DLP9500)
ViALUX	V - 9600 - VIS	DLP® Board for WUXGA DMD +ALP-4.2 Controller 32Gbit on-board RAM, 22727 Hz global array switching, trigger, scrolling		"0.96" WUXGA 1920x1200
ViALUX	ALP-41-BA	ALP-4.1 basic controller for Discovery4100 Developer Kit		0.7" XGA 0.95" 1080p
ViALUX	ALP-41-HS	ALP-4.1 high-speed controller for Discovery4100 Developer Kit		0.7" XGA 0.95" 1080p
Visitech	Luxbeam 4500	LUXBEAM® 4500 formatter board; memory management, sequencing and I/O signaling		0.7" XGA 0.95" 1080p
Wintech	V6	Integrated high speed streaming DLP control and interface kit. Available in 20Gbps (PCIe) and 12.5Gbps (Rapid IO) interface configurations. Virtex 6 FPGA with 4GB 800MHz DDR3 RAM.		Supports all 2xLVDS DMDs
Visitech	Luxbeam 4600	LUXBEAM® 4600 formatter board; memory management, Gigabit Ethernet data interface, sequencing and I/O signalling		0.7" XGA 0.95" 1080p


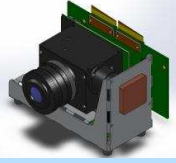





**Table 1. DLP® Discovery™ 4100 Accessories
Available from DLP Design House Network (continued)**

Electronics / Boards				
Design House	Product Name / Part #	Product Description	Image	Platform
Keynote	KP4100-XGA KP4100-1080P	Identical performance and footprint of the D4100		Supports all 2xLVDS DMDs
Keynote	KP4100-SDK	SDK software development platform for D4100/KP4100 including high speed memory operation, triggers, and grayscale display		Supports all 2xLVDS DMDs




**Table 2. DLP® Discovery™ 4100 Accessories
Available from DLP Design House Network**

Optical Modules				
Design House	Product Name / Part #	Product Description	Image	Platform
EKB	LaserBeamer AOL-D071R/R/G/B/UV	PnP Laser illumination module for D4100 0.7" DMD. Synchronization feature, F-mount lenses		0.7" XGA
ViALUX	HP-HLD	High-power LED driver up to 24 A; up to 12W optical output; @ 375, 388, 400, 405, 460, 525, 620 nm, digital control with ALP-4 system		Any with ALP-4
ViALUX	07-R/G/B/W	Optical module with basic driver and selection of Power10 LED in red, green, blue, or white, fixed LED power, no control option		0.7" XGA
ViALUX	HP-07	Optical module with high-power LED driver; variety of LEDs available; @ 405, 460, 525, 620nm, or white		0.7" XGA
ViALUX	HP-07-XS	Optical module for UV applications and standard 1:1 imaging, @ 375, 388, 405, 460, 525, 620 nm		0.7" XGA





**Table 2. DLP® Discovery™ 4100 Accessories
Available from DLP Design House Network (continued)**

Optical Modules				
Design House	Product Name / Part #	Product Description	Image	Platform
ViALUX	HP-07-MultiColor	Multi-Color Opt. mod. with LED combiner and 3x HP LED driver for simultaneous operation; LED combinations available (405, 460) / 525 / 620 nm		0.7" XGA
ViALUX	HP-096	Optical module for UV and VIS applications, 200...400 mm field of view; @ 375, 388, 405, 460, 525, 620 nm, or white		0.95" 1080p 0.96" WUXGA
Wintech	LF-07-VIS	Precision grade visible optical module with or without light source (LED/Laser/Lamp). Available in 2:1, 1:1, and 1:2 magnifications.		0.7" XGA
Wintech	LF-07-UV	Precision grade UV optical module with or without light source (LED/Laser/Lamp). Available in 2:1, 1:1, and 1:2 magnifications.		0.7" XGA
DLi	LED-OM, HP-LED-OM & S2 + Fiber Optic-OM	Ready-to-use OM's for DLi41xx Bundle Series/D4100/DLi3000; LED, High Power LED, and Fiber Optic OM (Connects to your own light source); R, G, B, White and 405nm Deep Blue; easily integratable		0.7" XGA
Visitech	LE 4710L VIS	Luxbeam light engine; optimized for 0.7" XGA resolution 2xLVDS Discovery 4100 chip set; LED up to 450 lumens		0.7" XGA
Visitech	LE 4910H VIS; LE 4910H-UV-388; LE 4910H-UV-405	Luxbeam light engines; up to 20kfps and 1080p / WUXGA resolution 2 X LVDS Discovery 4100 chip set; precise pixel control; synchronization, visible and UV LED light source		0.95" 1080P / WUXGA





**Table 3. Products and Accessories based on 0.3" WVGA Chipset
Available from DLP® Design House Network**

Design House	Product Name / Part #	Product Description	Image	Platform
Keynote Photonics	FlexLight LC3000-PRO	Keynote Photonics' production-ready, compact industrial projector based on TI's LightCrafter platform. Offers 100 lumens, thermal management, focus lock, and more while maintaining full compatibility with LightCrafter		0.3" WVGA
EKB	Laser LightCrafter DPM-L031/5I	LightCrafter with Hybrid Light output (Green, Blue LED, IR Laser) compact evaluation module		0.3" WVGA
EKB	Hi-Brightness LightCrafter™ DPM-031	LightCrafter with 80 lumen output (Red, Green, Blue LEDs) compact evaluation module		0.3" WVGA

**Table 4. Products and Accessories based on 0.55" XGA Chipset
Available from DLP® Design House Network**

Design House	Product Name / Part #	Product Description	Image	Platform
DLi	CEL5500s (Structured Light)	Production-ready Light Engine for Machine Vision & Structured Light; Fits in your hand; Fiber Optic Collimator for external light sources; VIS to NIR; 5,000Hz binary/500Hz 8-bit grayscale, 60Hz Video n-Axis, Telecentric Design, LightCommander Compatible SW		0.55" XGA Chipset
Keynote Photonics	FlexLight X3-PM55	DLP 5500 Controller & cabled 0.55 XGA DMD board with integrated, programmable pattern generator, camera sync & trigger, etc. Supports lamp, LED or laser illumination sources. Compatible with DLP LightCommander environment.		0.55" XGA
Keynote Photonics	FlexLight X3-MVC	Keynote Photonics X3 Machine Vision Controller provides programmable pattern generation, camera sync & trigger, DVI out and more to DLP projectors up to WUXGA native resolution		varies
EKB	LaserBeamer AOL-L55NIR/IR	Laser illumination module for 0.55" XGA DMD. Power Control compatibility with LC software		0.55" XGA Chipset

**Table 5. Other Products / Accessories available from DLP® Design House Network
Which use and/or Support DLP Technology**

Optical Modules				
Design House	Product Name / Part #	Product Description	Image	Platform
Keynote	FlexLight X1 Controller Board	Keynote Photonics: FlexLight X1; DLP Controller 1080p / WUXGA; Dual; HDMI Input; Programmable Pattern Gen.		0.95" 1080P / WUXGA
DLi	DLi3000 Production Controller Kit	Production-ready, fully embedded solution; small form factor; onboard DVI & USB; 8 bit grayscale, 2GB RAM, up to 16,800hz		0.7" XGA / 0.95" SXGA+ (1 x LVDS)
ViALUX	ALP-3-BD-BA	ALP-3 basic controller suite for Discovery 3000 Starter Kit Board		0.7" 1xLVDS XGA; 0.95" SXGA+ DDC3000
ViALUX	ALP-3-BD-HS	ALP-3 high-speed controller suite for Discovery3000 Starter Kit Board		0.7" 1xLVDS XGA; 0.95" SXGA+ DDC3000

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products (also referred to herein as "components") are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of significant portions of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI components or services with statements different from or beyond the parameters stated by TI for that component or service voids all express and any implied warranties for the associated TI component or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have **not** been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

Products

Audio	www.ti.com/audio
Amplifiers	amplifier.ti.com
Data Converters	dataconverter.ti.com
DLP® Products	www.dlp.com
DSP	dsp.ti.com
Clocks and Timers	www.ti.com/clocks
Interface	interface.ti.com
Logic	logic.ti.com
Power Mgmt	power.ti.com
Microcontrollers	microcontroller.ti.com
RFID	www.ti-rfid.com
OMAP Applications Processors	www.ti.com/omap
Wireless Connectivity	www.ti.com/wirelessconnectivity

Applications

Automotive and Transportation	www.ti.com/automotive
Communications and Telecom	www.ti.com/communications
Computers and Peripherals	www.ti.com/computers
Consumer Electronics	www.ti.com/consumer-apps
Energy and Lighting	www.ti.com/energy
Industrial	www.ti.com/industrial
Medical	www.ti.com/medical
Security	www.ti.com/security
Space, Avionics and Defense	www.ti.com/space-avionics-defense
Video and Imaging	www.ti.com/video

TI E2E Community

e2e.ti.com