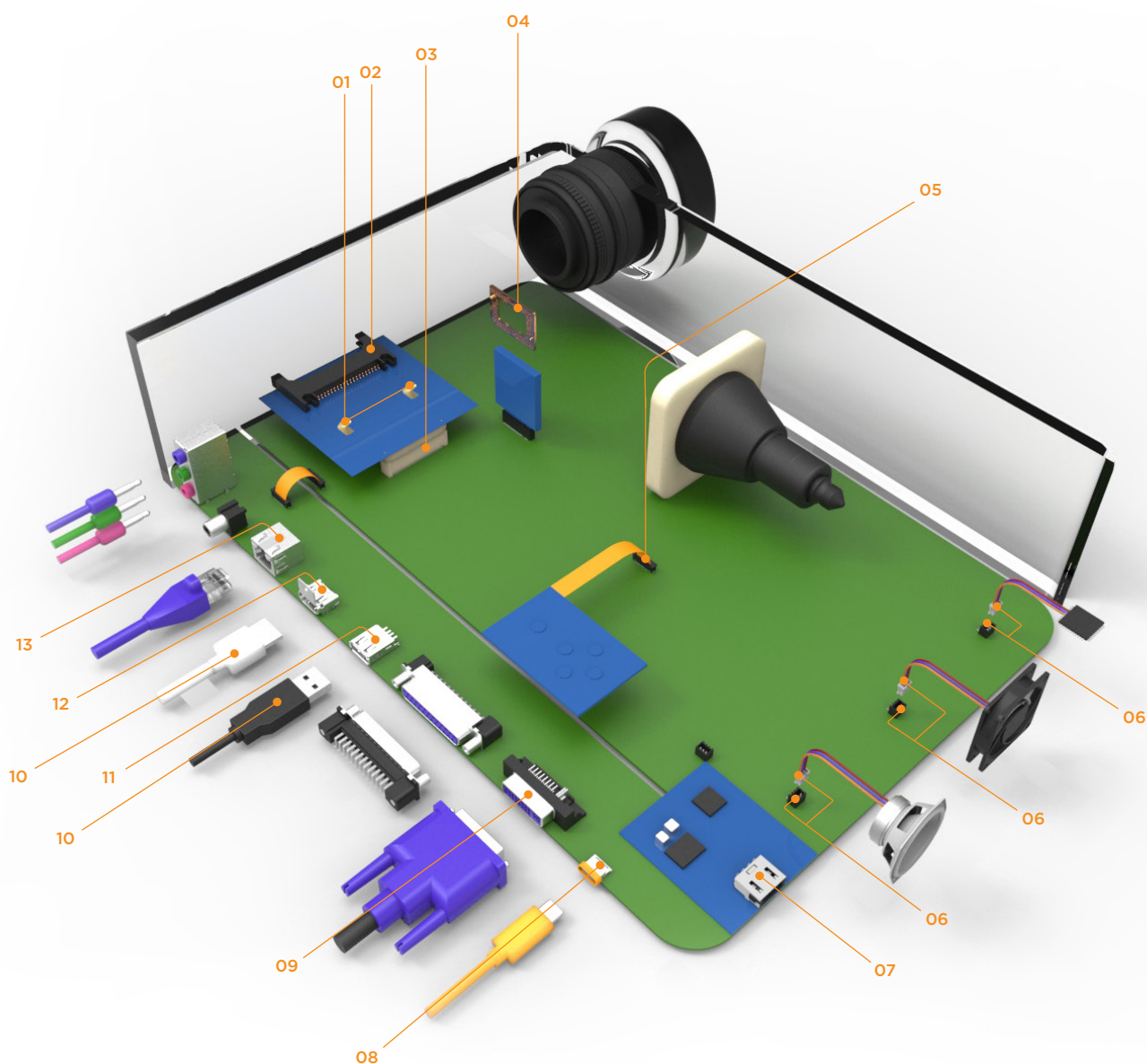# DIGITAL LIGHT PROCESSING PROJECTORS

Used in most digital screens and other applications including the entertainment, film, and educational industries, Digital Light Processing (DLP*) is the way forward for projection technology. As the DLP projector market continues to grow, the need for highly functional connectivity solutions is also increasing.

For high-quality DLP projector designs, customers expect consistent outputs and high-contrast pictures. Efficient, durable, and proven connectivity solutions from TE Connectivity (TE) that enable these high-quality designs include low profile, easy assembly and customized next-generation connectors providing the reliability, quality, and improved productivity TE is known for.
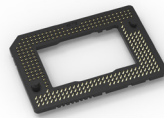
* DLP and DLP® logo are trademarks of Texas Instruments

01 — Grounding Spring Finger Connectors

02 — Memory Card Connectors

03 — 0.8mm Free Height Connectors

04 — DMD Socket 350 / DMD Socket 257

05 — FPC Connectors

06 — CT Connectors

07 — DC-Power Jacks

08 — USB Type-C Connectors

09 — D-Sub Connectors

10 — Cable Assemblies

11 — USB Type A (Right angle) Connectors
　　　USB Type A (Flag) Connectors
　　　USB Type A (3.0) Connectors

12 — HDMI (Right angle) /
　　　HDMI (Flag) Connectors

13 — Modular Jacks

TE
connectivity

	BOARD TO BOARD 0.8mm Free Height Connectors	SOCKET DMD Socket 350	SOCKET DMD Socket 257	FPC FPC Connectors
Key Part No.	5084616-3 1-5177986-3	2041549-1	2319757-1	1-2328702-0 1-2328724-5
Key Product Features	• Number of positions: 40-200 • Stack heights from 5mm to 20mm • Polarized housings to prevent mis-mating • Locating posts for proper positioning • Tube, tray, or tape and reel packaging options	• Number of positions: 350 • Chipset compatibility: TI chipset s600 DMD • Leg style: pin grid array (PGA) • Insertion force: ZIF • As one of a limited number of suppliers of this technology, TE is your dependable socket partner to support current and future DLP chipset designs.	• Number of positions: 257 • Chipset compatibility: TI chipset s410 DMD • Socket type: dual compression (welding-free) • Anti-scratch contact design protects the terminal from damage during operation process • Lower socket loading force protects the chipset from cracks	• Number of positions: 3-60 • Pitch: 0.25 To 1.25 pitch • Slant FPC insertion option to maximize PCB layout area • Low profile (less than 1mm) economical product offerings • Wide portfolio enabling high design flexibility with proven quality & reliability
Applications	• Data communication (server/switching) • Consumer electronics (monitor, display, projector, HMI) • Automotive (Infotainment) • Industrial • Security	• Projection display • Automotive (head-up display, interactive consoles, dynamic headlights) • Industrial (3D printing, spectroscopy, digital lithography)	• Projection display • Automotive (head-up display, interactive consoles, dynamic headlights) • Industrial (3D printing, spectroscopy, digital lithography)	• Hand-held scanners • POS devices, set-top boxes, gaming consoles • Business equipment • Industrial controls, gas pumps, ATMs, slot machines • Medical equipment
Literature	0.8 Free Height connector	——	——	FPC Connectors

	CARD Memory Card Connectors	GROUNDING Spring Fingers Connectors	WIRE TO BOARD CT Connectors	I/O USB Type C Connectors
Key Part No.	2201778-1	1447009-8 1775073-1	1932258-1	2336583-1
Key Product Features	• Anti-buckling design • Low profile • Wide portfolio	• Largest off-the-shelf offering of spring fingers/ grounding products • Scalable series offer the same single footprint, the product can be easily swapped when design change is required • Advanced pre-loaded/ pick-and-place feature support reliable contact and efficient auto-assembly	• Two termination methods: IDC, crimp • Kinked leg options for self-retention on boards • IDC AWG 24-28 • Crimp AWG 22-30	• Standard USB 3.0 (1) • 5 Amp power • 5-10 Gbps data rate
Applications	• Hand-held devices • POS devices • Gaming consoles • Automotive (Infotainment) • Industrial • Security	• Pico projectors • Mobile phones • Wearable devices • Game consoles • Tablets • Patient monitoring devices • POS scanners • Security systems • GPS devices	• Business equipment • Industrial machines • PCs • Printers • Fax machines • C-TV • Audio • Air conditioners	• Hand-held devices • POS devices • Gaming consoles • Automotive (Infotainment) • Industrial • Security
Literature	CARD Memory card	Spring Finger Connectors	CT Connectors	USB Type-C Connectors

TE connectivity

	I/O USB Type-A (Right angle) Connectors	I/O USB Type-A Connectors	I/O HDMI (Right Angle / Flag) Connectors	I/O DC-Power Jacks
Key Part No.	292303-1 292303-9	1-1734775-1	5-1903015-5 1746679-1	1-2129458-1
Key Product Features	• Standard USB 2.0 • Right-angle • 292309-1 (Through-hole) • 292303-9 (SMT)	• Standard USB 2.0 • Flag • Through-hole	• HDMI • Right angle (SMT / Through-hole) • Flag (Through-hole)	• 25V • 10.7A
Applications	• POS-terminals • ATM-machines • Notebooks • Industrial (robotics) • Automotive • Test equipment • Servers • Video conferencing • Printers • Network equipment • Building control	• POS-terminals • ATM-machines • Notebooks • Industrial (robotics) • Automotive • Test equipment • Servers • Video conferencing • Printers • Network equipment • Building control	• Base stations (mobile) • PCs • Home and building control systems • Medical ultrasonic-equipment • Printers • Network solutions • Telepresence systems	• Docking stations • Chargers
Literature	USB Type-A (Right angle)	USB Type-A (Flag)	HDMI (Right Angle / Flag)	——

	I/O Modular Jacks	I/O USB Type-A (3.0) Connectors	CABLE TO BOARD D-Sub Connectors	CABLE ASSEMBLY USB / HDMI Cable Assemblies
Key Part No.	1734795-5	1932258-1	5177802-3	1-2117154-0 1-2117155-0 1-2117156-0 1770019-1
Key Product Features	• Panel ground and PCB ground • Standard RJ45 interface • 1.02mm pitch • PCB tail length: 2.4mm • Connector height: 11.3mm • Performance category Cat3	• Standard USB 3.0 • Right angle • Through hole	• Right angle PCB • Vertical PCB • Cable mounted	• USB 3.0 A to B • USB 3.0 A to Micro B • USB 3.0 A to A • HDMI A to A
Applications	• Switches/routers • Servers/NICs • Consumer devices • Industrial control equipment	• Notebooks	• Consumer electronics • Telecommunications • Local Area Networks (LANs) • Military • Industrial • Medical equipment	• Consumer electronics (POS, gaming consoles, printers)
Literature	I/O Modular Jacks	USB Type-A (3.0) Connectors	D-Sub Connectors	——

5G These solutions are helping to unlock the potential of 5G. Our portfolio of 5G solutions and capabilities address key challenges faced by design engineers around the world.*

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1-1773954-4 EN 06/2018

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