

DLP® Connector Overview

OVERVIEW

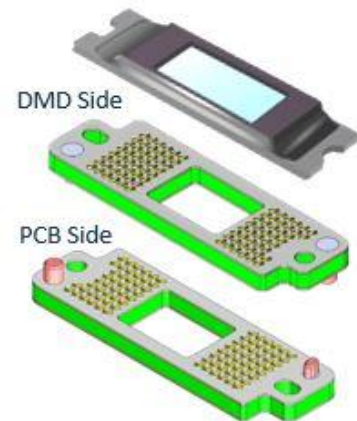
The DLP® PCBeam™ Connector is an interconnect solution for the Texas Instruments DLP® chips suitable for ultra-mobile and portable applications. One one-piece, high density and cost-effective solutions are enabled by Neoconix's patented PCBeam™ technology providing both a heat-sink opening and features for precise alignment of the Interposers to the DMD and main PC Board. Latest designs incorporate a bifurcated contact design which enhances the product reliability by providing an aggressive wiping during assembly.

FEATURES

- Proven High-Performance PCBeam™ contact design
- Connectors are fully compliant to the OEM's reference design drawings
- Both solderless LGA and solderable BGA solutions available
- Current capacity up to 1.5A per position
- Hard gold-plated contact interface
- Compliant with ROHS 2011/65/EU and IPC-4101B (halogen-free)



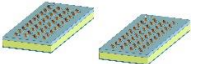

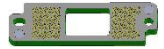


NCX S312 Connector Shown



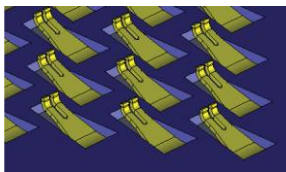
NCX S315 Connector Shown

STANDARD PRODUCT FAMILY

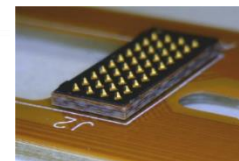
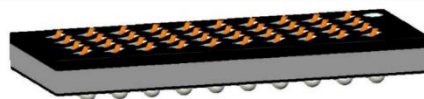
DMD Description				Electrical Interconnect Information			
Series Number	DLP Number	Array Diagonal	Pad/Pin Qty	IO Qty DMD/PCB Type	TI Dwg. Number	Configuration	Neoconix Part Number
S245	DLP3010FQK 7212-3138K	.30 720p	57	57 LGA/LGA	2513242 (Notch)		BDX0057CMMF4AU00 ⁽¹⁾
S246	DLP230GFQP 5496-203BK	.23 qHD	54	54 LGA/LGA	2515731		BDX0054CMMF4AU00
S310	DLP4500FQD DLP4500NIRFQD 1191-4xxxC	.45 WXGA	80	40 LGA/BGA (2 req'd)	2510978		FBX0040CMFF6AU00
S311	DLP4501FQD 1191-4xxxF						
S312	DLP4710 1019-503BM	.47 1080p	100	100 LGA/LGA	2513791		BDX0100CMMHFAU00 ⁽²⁾⁽³⁾
S315	DLP3310FQM 7613-3xxxM	.33 1080p	92	92 LGA/LGA	2515010		BBX0092CMMHFAU00 ⁽³⁾⁽⁴⁾

1. Compressible Coverlay
3. New bifurcated contact tip for added reliability

2. Over-molded frame
4. In-molded alignment pins



Bifurcated Contact Design



40 pos LGA/BGA Connector

FOR MORE INFORMATION

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