XLA SOCKET

NEXT-GENERATION XLA SOCKET TECHNOLOGY PROVIDES SUPERIOR WARPAGE CONTROL

TE Connectivity's (TE) distinctive new XLA socket technology enables you to customize your microprocessor to optimize the performance of your solutions. The XLA product line was developed for next generation data rates and can easily scale in size to align with technology trends. Our technology provides more reliable performance with superior warpage control compared to traditional molded socket technologies. TE can develop the entire solution including both socket and compression loaded hardware.

Key Features

- Combines both PCB and stamped technologies

- Customizable to align with your design specifications in a one piece design

- Multiple configurations available including both LGA/BGA and LGA/LGA mounting styles

Key Benefits

- Warpage control 78% better than traditional plastic housings

- 33% better true positioning on the solder ball and contact

- Low CTE mismatch to motherboard

- Validated to support 56 Gbps data rates

Applications

- Servers

- Switches

- Optical Modules

- Interposers

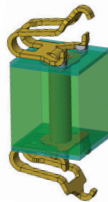### XLA Technology

56Gbps
Validated

10,000+
Pin counts

Up to
110mm×110mm

Warpage (Min-Max): 0.07mm - 0.09mm
Contact Side True Positioning: 0.10mm

Contact Deflection: 0.32mm
Peak Normal Force (NF): 34 gf

Mounting Styles

LGA/ BGA (Hybrid)	LGA/ LGA (Dual Compression)
Pros • Lower cost • Lower profile • Less venerable to pin damage	**Pros** • Better deflection & working range • Easy field replacement

Hardware Capabilities

TE has decades of experience developing compression hardward to ensure a reliable connection between the CPU and motherboard. Our hardware capabilities include independent loading mechanisms with formed levers, machined bolster plates and load cells to ensure a precise amount of load is equally distributed across the microprocessor, as well as minimizing the complexity to implement the hardware during your assembly process.

Please contact TE today so our experienced engineering teams can help design the socket needed for your next-generation application.

te.com/products/LGA-Sockets

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