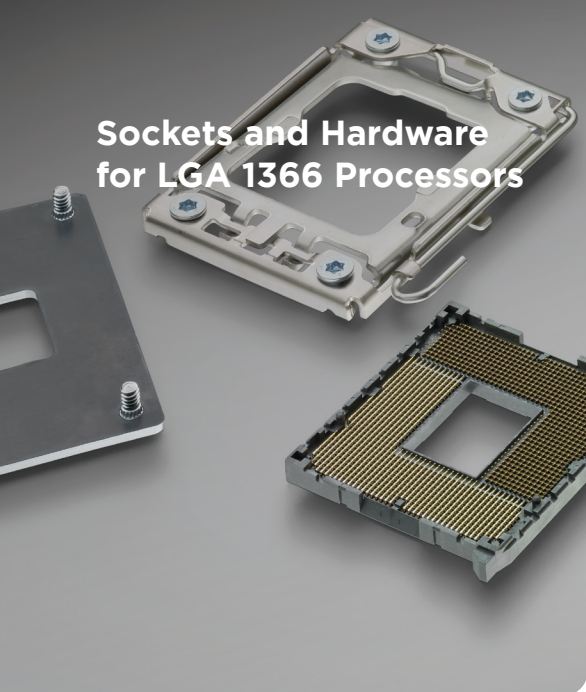


Introducing Sockets and Hardware for LGA 1366 Processors

TE Connectivity's surface mount LGA socket was designed for use with Intel's® Core™ i7 LGA 1366 processor. The contacts have .64mm diameter solder balls for surface mount onto the PCB, while the top side provides a cantilever beam interface to the package. The integrated lever mechanism (ILM) generates the Z-axis compression load. A robust bolster plate helps eliminate PCB bowing during compression. The sockets are validated to Intel Design Guides.



Sockets and Hardware for LGA 1366 Processors



KEY FEATURES

- 1366 contacts with a 1.016mm x 1.016mm grid.
- Available with 15 or 30 Gold contact plating.
- Socket housing facilitates efficient soldering to the PCB board.
- Socket is supplied with a cap to facilitate vacuum pick and place. Spare caps can be ordered separately.
- Two backplate options for use in desktop or server applications.
- ILM and backplate must be ordered separately. Kits are also available for ease in ordering.

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APPLICATIONS

- Servers
- High End desktop computers

ELECTRICAL

- Low level bulk contact resistance: 15 milliohms max avg.
- Insulation resistance: 800 milliohms min. @ 500 VDC

MECHANICAL

- Nominal Deflection: .5 mm
- Durability: 30 cycles
- Mating and Unmating force of Lever: 49N max

MATERIALS

- Socket assembly
Contact: Copper Alloy, gold plating on contact area over nickel plating.
Base housing: Thermoplastic UL94V-0
Cap: Thermoplastic UL94V-0
- ILM load plate and lever: Stainless steel
- ILM frame, nut and collar: Steel
- Backplate assembly: Steel
- Insulator: Polypropylene

APPLICATIONS AND SPECIFICATION

- Application specification 114-5432
- Product specification 108-78496

PRODUCT OFFERINGS

| Part Number | Description | Plating | Solder Ball |
|-------------|----------------------|---------|-------------|
| 1981837-1 | LGA 1366 Socket | 15 Gold | Lead Free |
| 1981837-2 | LGA 1366 Socket | 30 Gold | Lead Free |
| 1-1981837-2 | LGA 1366 Socket | 30 Gold | Leaded |
| 1939738-1 | ILM U Lever | | |
| 1-1939738-2 | ILM Straight Lever | | |
| 1-1939738-1 | Short Straight Lever | | |
| 1939739-1 | Desktop Back Plate | | |
| 1981467-1 | Server Back Plate | | |
| 1-1981374-1 | Spare socket cap | | |

ILM/Back Plate Kits

| Part No. | 1939738-1 U Lever | 1-1939738-2 Straight Lever | 1-1939738-1 Short Straight Lever | 1939739-1 Desktop Back Plate | 1981467-1 Server Back Plate |
|-------------|----------------------|-------------------------------|--|------------------------------------|-----------------------------------|
| 2040865-1 | 1 | | | 1 | |
| 2040865-2 | 1 | | | | 1 |
| 2040865-3 | | 1 | | 1 | |
| 2040865-4 | | 1 | | | 1 |
| 2040865-9 | | | 1 | 1 | |
| 1-2040865-0 | | | 1 | | 1 |



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