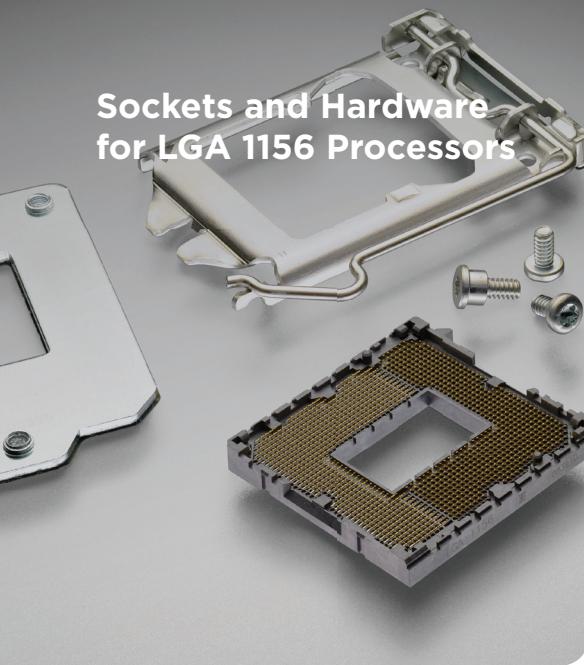


## Introducing

### Sockets and Hardware for LGA 1156 Processors

Tyco Electronics' surface mount LGA socket was designed for use with Intel's® Core™ i7 LGA 1156 processor. The contacts have 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 eliminates PCB bowing during compression. The sockets have been validated to Intel Design Guides.



## Sockets and Hardware for LGA 1156 Processors

### KEY FEATURES

- 1156 contacts with a 0.914mm x 0.914mm grid.
- Available with 15 Gold or Gold flash contact plating.
- Socket housing facilitates efficient soldering to the PCB board.
- Socket is supplied with a cap to facilitate vacuum pick and place.
- Backplates are available in zinc or nickel plating.
- ILM, screws and backplate must be ordered separately. Kits are also available for ease in ordering.
- Each ILM assembly requires two ILM screws and one ILM shoulder screw.

### APPLICATIONS

- Desktop computers
- Low end servers

### ELECTRICAL

- Low level bulk contact resistance: 22 milliohms max avg.
- Insulation resistance: 800 milliohms min. @ 500 VDC

### MECHANICAL

- Nominal Deflection: .45 mm
- Durability: 30 cycles
- Package mating and unmating operation force of lever: 49N (5kgf) maximum

### MATERIALS

- Socket assembly
  - Contact: Copper Alloy, gold plating at contact area on nickel under plating.
  - Base housing: High temperature thermoplastic UL94V-0
  - Cap: High temperature thermoplastic UL94V-0
- ILM load plate and lever: Stainless steel
- ILM frame, ILM screw and shoulder screw: Steel
- ILM Insulator: Polypropylene
- Backplate assembly: Steel, zinc or nickel plated
- Backplate Insulator: Polypropylene

### APPLICATIONS AND SPECIFICATION

- Application specification 114-5444
- Instruction sheet 411-78321
- Product Spec 108-78586

### PRODUCT OFFERINGS

| Part Number | Description                  | Plating    |
|-------------|------------------------------|------------|
| 2040540-1   | LGA 1156 Socket              | 15 Gold    |
| 2040540-2   | LGA 1156 Socket              | Gold Flash |
| 2013882-1   | ILM Assembly                 |            |
| 2013882-2   | ILM Assembly with ILM screws |            |
| 2013883-1   | Back plate assembly          | Zinc       |
| 2013883-2   | Back plate assembly          | Nickel     |
| 2013884-1   | Shoulder Screw               |            |
| 2040979-1   | ILM Screw                    |            |

### ILM/Back Plate Kits

| Part No.  | 2013882-1<br>ILM Assembly | 2013884-1<br>Shoulder<br>Screw | 2040979-1<br>ILM Screw | 2013883-1<br>Back Plate<br>Assembly -<br>Zinc Plated | 2013883-2<br>Back Plate<br>Assembly -<br>Ni Plated | Qty<br>per<br>kit |
|-----------|---------------------------|--------------------------------|------------------------|--|--|-------------------|
| 2069838-1 | 1                         | 1                              | 2                      | 1  | 0  |                   |
| 2069838-3 | 0                         | 1                              | 2                      | 1  | 0  |                   |
| 2069838-4 | 1                         | 1                              | 2                      | 0  | 1  |                   |
| 2069838-5 | 0                         | 1                              | 2                      | 0  | 1  |                   |



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