



High Performance IC Sockets And Adaptors





- An economical and reliable alternative to soldering BGA devices directly to the motherboard
- Same footprint as BGA device
- Compact, low-profile design maximizes PC board space.
- Ironwood has Fastest Delivery
- Soldering Very Similar to Soldering IC Package
- PCB can be reflowed with Giga-snaP





- Access to BGA Pads for Test & Interconnection
- Pin Counts from 36 to 1936
- Available Pitches from 1.27, 1, 0.8 mm
- Smaller Pitch Adaptor In Development
- Connection via Gold-Plated Terminals
- Soldered Using Conventional BGA Method





- Substrate Material: FR4/G10
- Pin Material: Brass 360, 1/2 Hard
- Contact material: Be Cu 172
- Finish: Gold over Nickel
- Pins Bonded w/ Epoxy Overmold





- Pick & place support, reflow profiles
- Tape and reel support
- Solders same as IC it emulates
- No Warp Epoxy Over-mold
- Patent Pending





- No CTE mismatch
- Component heat dissipation does not affect solder connections
- Short electrical path
- Co-planarity: < 100 micro meter





- Insertion Force:
 - < = 0.12N Initial insertion force (0.2mm diameter pin)
 - < = 0.2N Initial insertion force (0.254mm diameter pin)
- Extraction Force:
 - < = 0.12N Extraction force (0.2mm diameter pin)</pre>
 - < = 0.2N Extraction force (0.254mm diameter pin)





- Contact-durability: > 100 cycles
- Operating Temperature: -40°C -125℃
- Socket: Mass
 - 388 position Female Receptacle: 4.25g
 - 388 position Male Land Socket: 3.5g





Giga-snaP Socket/Adaptor - RoHS

- Current per contact 1A@85C
- Contact resistance <= 15 milliohms
- Isolation resistance 1E10 ohms
- Self inductance 2.4nH
- Mutual inductance 0.4nH
- Capacitance 67fF



Giga-snaP Socket/Adaptor - RoHS

- Substrate with Td > 350C
- SAC305 solder balls
- Withstands high temp solder profile
- Quick delivery
 - 3 days for standard part
 - 5 days for custom part





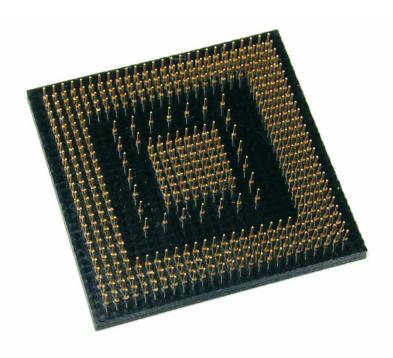
Giga-snaP Socket/Adaptor - xRef

| SMD Adapter | Land Socket | Ball Count | Xilinx Compatible Package |
|------------------|----------------|------------|---------------------------|
| SF-BGA1148A-B-42 | LS-BGA1148A-41 | 1148 | FF1148 |
| SF-BGA1517A-B-42 | LS-BGA1517A-41 | 1517 | FF1517 |
| SF-BGA1696A-B-42 | LS-BGA1696A-41 | 1696 | FF1696 |
| SF-BGA1704A-B-42 | LS-BGA1704A-41 | 1704 | FF1704 |
| SF-BGA896A-B-42 | LS-BGA896A-41 | 896 | FF896 |
| SF-BGA1156A-B-42 | LS-BGA1156A-41 | 1156 | FG1156 |
| SF-BGA256E-B-42 | LS-BGA256E-41 | 256 | FG256 |
| SF-BGA456C-B-42 | LS-BGA456C-41 | 456 | FG456 |
| SF-BGA556A-B-42 | LS-BGA556A-41 | 556 | FG556 |
| SF-BGA676C-B-42 | LS-BGA676C-41 | 676 | FG676 |
| SF-BGA680C-B-42 | LS-BGA680C-41 | 680 | FG680 |
| SF-BGA860A-B-42 | LS-BGA860A-41 | | FG860 |
| SF-BGA900A-B-42 | LS-BGA900A-41 | 900 | FG900 |
| SMD Adapter | Land Socket | Ball Count | Altera Compatible Package |
| SF-BGA780A-B-42 | LS-BGA780A-41 | 780 | 780-FBGA |
| SF-BGA1020A-B-42 | LS-BGA1020A-41 | 1020 | 1020-FBGA |





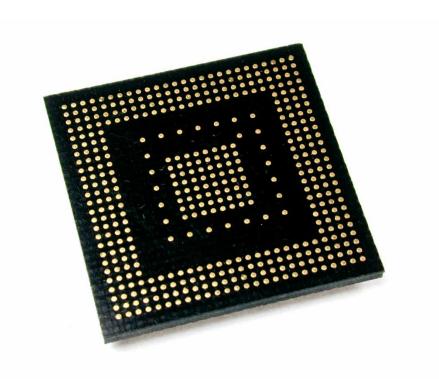
Giga-snaP Adaptor – Bottom view







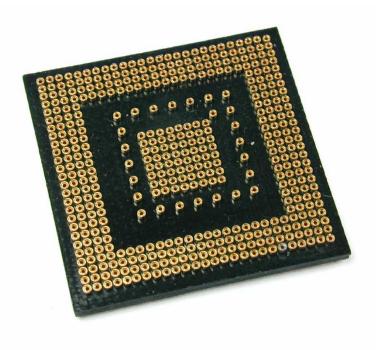
Giga-snaP Adaptor – Top view







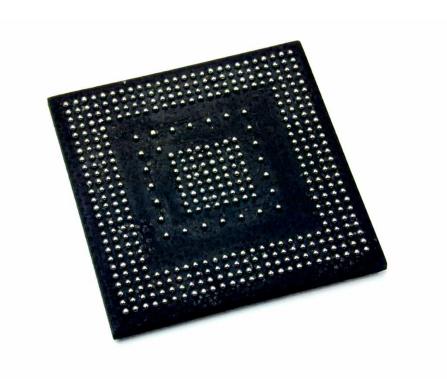
Giga-snaP Socket – Top view





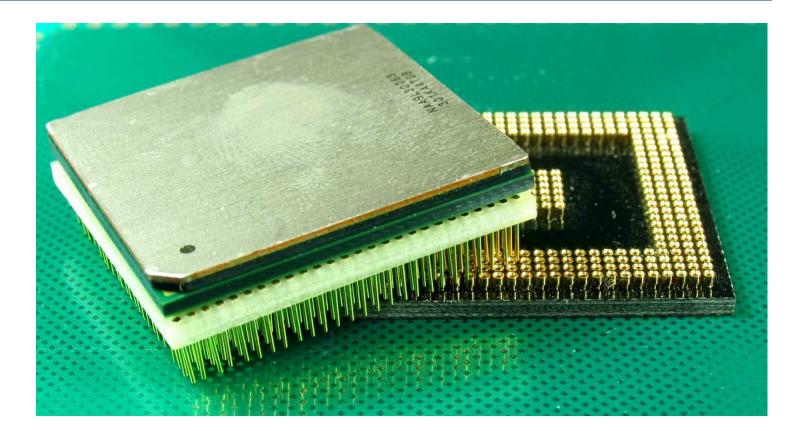


Giga-snaP Socket – Bottom view

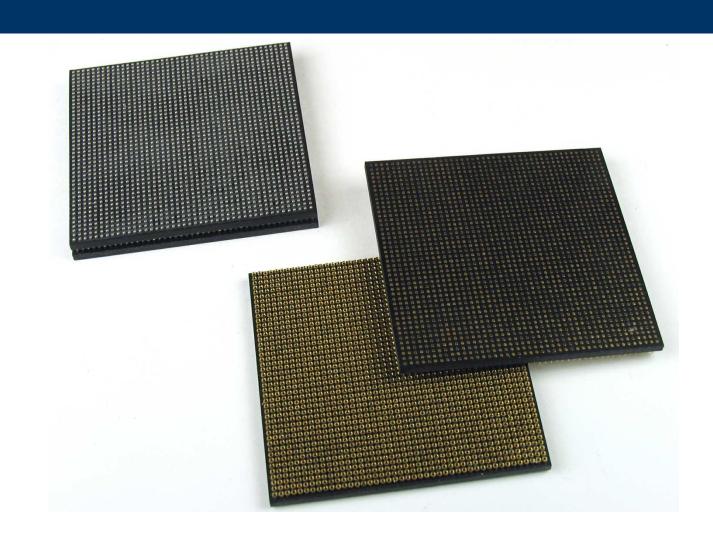












Thanks for your time and attention !!







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