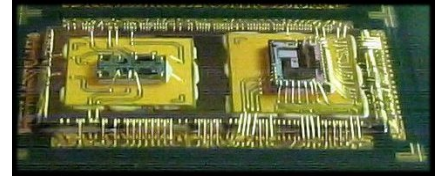
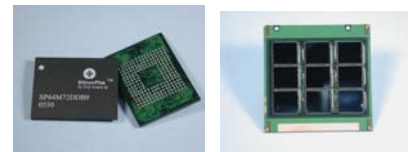


Three die, three substrate BGA. The largest ASIC die was attached to a custom six metal layer main laminate substrate. Two one metal layer flex substrates are attached onto the top of the large die then a smaller ASIC die and a linear die were attached to them. All die wire bonded prior to encapsulation.



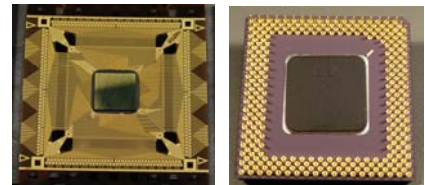
Nine die 4.6 Gb, 64M X 72 DDR memory BGA. Six metal layer laminate substrate. Die are flipchip assembled then module is transfer molded. The use of WLCSP allows individual die electrical screening. Final electrical screening done at finished product.



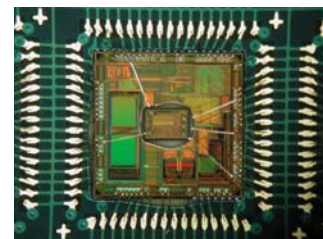
Freescale 603R Power PC in high “G” hermetic package. 603R die flipchip assembled into a custom 2.54mm pitch PGA with seal ring. Final product tested from -55C to 125C.



Obsolete Intel Pentium Processor in original PGA Package. Only die available were in TAB format. Die were reclaimed from TAB package and assembled into original PGA.

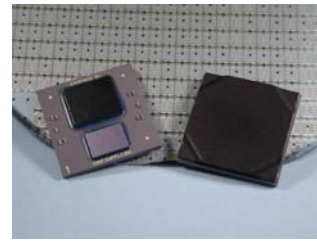


Stacked die CSP. Two die are stacked on a custom laminate substrate, wire bonded then transfer molded.



Freescale MPC7410 Power PC with on-board SRAM cache.

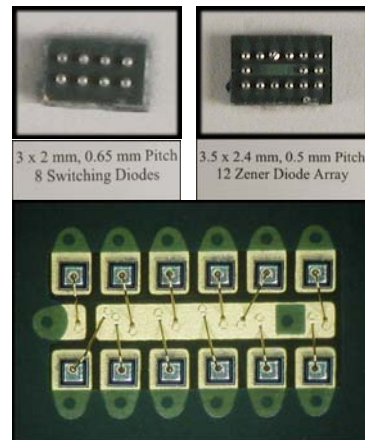
Original package size and footprint with heat sink added for operation to 125C.



Multiple diode array surge protection CSP's.

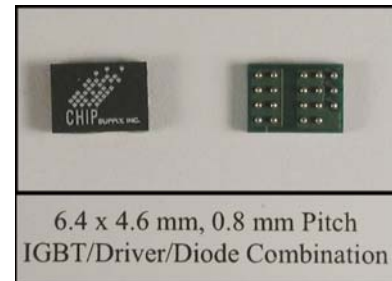
Can include signal diodes, zener diodes, etc.

These products are available “off the shelf”.



Multiple die CSP's.

Any die combinations including processors, memories or ASIC's.



MIL-PRF-38535 Level “Q” Qualified Military Line (QML) supplier.

Standard and custom packages are available including DIP, Leaded and Leadless Chip Carriers, Flat Packs, PGA's, BGA's and a variety of Metal Cans.



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