Topic : ASIC

Introduction :- ASIC is an acronym for application specific integrated circuit. As the name indicates, ASIC is a non standard circuit that is designed for a specific use or application. Generally an ASIC design will be undertaken for a product that will have a large production run, and the ASIC may contain a very large part of the electronics needed on a single integrated circuit.

Example for ASIC "IC" are: a chip for a toy bear that talks; a chip for a satellite, a chip designed to handle the interface between memory and a microprocessor for a workstation CPU, and a chip containing a microprocessor

as a cell together with other logic.

Two ICs that might or might not be considered as ASIC are a controller chip for a PC and a chip for modem. Both of these examples are specific to an application (shades of an ASIC) but are sold to many different system vendors (shades of a standard part). ASIC such as these are sometimes called application specific standard product (ASSPs)

Types of ASIC

ASIC

Full custom   semi-custom   Progra...

Standard cell Based.

Gate Array Based.

PLD ...

Channeled   Channeless   Stru... gat...