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An integrated circuit (IC) is a small electronic device made up of multiple interconnected electronic components such as transistors, resistors, and capacitors. These components are etched onto a small piece of semiconductor material, usually silicon. An IC is also known as a microchip, computer chip, or simply chip.

The first integrated circuit (IC) was developed in 1958 by Jack Kilby at Texas Instruments. It was a single germanium chip that contained 16 transistors. This was followed by the integrated circuit (IC) developed by Robert Noyce at Fairchild Semiconductor in 1959. It was a silicon chip that contained 6 transistors.

Today, integrated circuits (ICs) are used in a wide variety of applications, from simple calculators to complex microprocessors. They are essential components in almost all modern electronic devices.

An integrated circuit (IC) is a compact electronic chip made up of interconnected components that include resistors, transistors, and capacitors built on a single piece of semiconductor material such as silicon. Integrated circuits can contain collections of hundreds to billions of components all working together to perform a specific function.

The three main types of integrated circuits are analog, digital, and mixed signal circuits. Integrated circuits may be monolithic (one piece of silicon where components are added in one layer) or they may be more complex such as chiplets that have more than one piece of silicon.

An integrated circuit (IC) is an assembly of electronic components fabricated as a single unit in which miniaturized active devices (e.g., transistors and diodes) and passive devices (e.g., capacitors and resistors) and their interconnections are built up on a thin substrate of semiconductor material, typically silicon.

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