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[computer wikipedia](#) May 24 2022 a computer is a digital electronic machine that can be programmed to carry out sequences of arithmetic or logical operations computation automatically modern computers can perform generic sets of operations known as programs these programs enable computers to perform a wide range of tasks a computer system is a complete computer that includes the

**transistor wikipedia** Feb 27 2020 a transistor is a semiconductor device used to amplify or switch electrical signals and power the transistor is one of the basic building blocks of modern electronics it is composed of semiconductor material usually with at least three terminals for connection to an electronic circuit a voltage or current applied to one pair of the transistor s terminals controls the current

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**dual in line package wikipedia** Jan 28 2020 the original dual in line package was invented by bryant buck rogers in 1964 while working for fairchild semiconductor the first devices had 14 pins and looked much like they do today the rectangular shape allowed integrated circuits to be packaged more densely than previous round packages the package was well suited to automated assembly equipment a pcb

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tTL logic chips in 1964 Texas Instruments introduced the SN5400 series of logic chips in a ceramic semiconductor package a low cost plastic package SN7400 series was introduced in 1966 which quickly gained over 50% of the logic chip market and eventually becoming de

*diode transistor logic wikipedia* Jun 20 2019 diode transistor logic TTL is a class of digital circuits that is the direct ancestor of transistor transistor logic it is called so because the logic gating function e.g. AND is performed by a diode network and the amplifying function is performed by a [555 timer IC wikipedia](#) Sep 28 2022 the 555 timer IC is an integrated circuit chip used in a variety of timer delay pulse generation and oscillator applications derivatives provide two or four timing circuits in one package the design was first marketed in 1972 by Signetics since then numerous companies have made the original bipolar timers as well as similar low power CMOS timers

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*electric power system wikipedia* Nov 06 2020 an electric power system is a network of electrical components deployed to supply transfer and use electric power an example of a power system is the electrical grid that provides power to homes and industries within an extended area the electrical grid can be broadly divided into the generators that supply the power the transmission system that carries the power from the

*how do integrated circuits work explain that stuff* Aug 27 2022 Jun 28 2021 integrated circuits revolutionized electronics and computing during the 1960s and 1970s first engineers were putting dozens of components on a chip in what was called small scale integration SSI McGraw Hill Professional 2013 a comprehensive and up to date guide to all aspects of chip production technology of integrated circuits by

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**phase locked loop wikipedia** Jul 14 2021 a phase locked loop or phase lock loop PLL is a control system that generates an output signal whose phase is related to the phase of an input signal there are several different types the simplest is an electronic circuit consisting of a variable frequency oscillator and a phase detector in a feedback loop the oscillator's frequency and phase are controlled proportionally by an

[application specific integrated circuit wikipedia](#) Oct 17 2021 an application specific integrated circuit ASIC 'er s i k is an integrated circuit IC chip customized for a particular use rather than intended for general purpose use for example a chip designed to run in a digital voice recorder or a high efficiency video codec e.g. AMD VCE is an ASIC application specific standard product ASSP chips are intermediate between ASICs and

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**operational amplifier wikipedia** Sep 04 2020 an operational amplifier often op amp or opamp is a dc coupled high gain electronic voltage amplifier with a differential input and usually a single ended output in this configuration an op amp produces an output potential relative to circuit ground that is typically 100 000 times larger than the potential difference between its input terminals

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