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Definition: Analog and digital

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communications are the two types of data transmission system however several factors generate the difference between the two. The major difference between analog and digital communication lies in the signal being transmitted. In analog communication, the message signal is in analog form i.e., continuous time signal.

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Analog signals are used in many systems, although the use of analog signals has declined with the advent of

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cheap digital signals. All natural signals are Analog in nature or analog signal is that signal which amplitude on Y axis change with time on X axis... Digital. Digital signals are discrete in time and value.

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Following are the sections of the digital communication system. Source. The source can be an analog signal. Example: A Sound signal. Input

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Transducer. This is a transducer which takes a physical input and converts it to an electrical signal (Example: microphone). This block also consists of an analog to digital converter where a digital signal is needed for further processes.

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An electrical impulse or an electromagnetic wave which travels a distance to convey a message, can be termed as a signal in communication systems. Depending on their characteristics, signals are mainly

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classified into two types: Analog and Digital. Analog and Digital signals are further classified, as shown in the following figure.

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electric signals. In both these technologies, the information, such as any audio or video, is transformed into electric signals.

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called as 1G) to Global System for Mobile Communications (GSM, digital communications, also called 2G, where the Internet service is added in at the same time), third generation (3G, digital, supported data, packet switched, etc.), fourth generation (4G, wireless broadband, long-term evolution (LTE), and LTE-advanced (LTE-A)), and finally

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the fifth generation (5G), and so forth.

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Digital Communication. Definiton.  
Analog Communication is the technology which uses Analog signal for the transmission of information. Digital Communication is the technology which

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uses digital signal for the transmission of information. Noise and Distortion. Get affected by Noise. Immune from Noise and Distortion.

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L.W. Couch, Digital and Analog Communication Systems, 6th Edition,

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systems, although the use of analog signals has declined with the advent of cheap digital signals. 4. DIGITAL COMMUNICATION. Digital communications is the physical transfer of data (a digital bit stream) over a point-to-point or point-to-multipoint transmission medium.

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