AMPLIFIER:--

An **electronic amplifier**, **amplifier**, or (informally) **amp** is an electronic device that increases the [power](http://en.wikipedia.org/wiki/Power_%28physics%29) of a [signal](http://en.wikipedia.org/wiki/Signal_%28information_theory%29). It does this by taking energy from a [power supply](http://en.wikipedia.org/wiki/Power_supply) and controlling the output to match the input signal shape but with a larger [amplitude](http://en.wikipedia.org/wiki/Amplitude). In this sense, an amplifier modulates the output of the power supply.

Oscillator:-

An **electronic oscillator** is an [electronic circuit](http://en.wikipedia.org/wiki/Electronic_circuit) that produces a repetitive, [oscillating](http://en.wikipedia.org/wiki/Oscillation) electronic signal, often a [sine wave](http://en.wikipedia.org/wiki/Sine_wave) or a [square wave](http://en.wikipedia.org/wiki/Square_wave).[[1]](http://en.wikipedia.org/wiki/Electronic_oscillator#cite_note-Snelgrove-1)[[2]](http://en.wikipedia.org/wiki/Electronic_oscillator#cite_note-Chattopadhyay-2) Oscillators convert [direct current](http://en.wikipedia.org/wiki/Direct_current) (DC) from a power supply to an [alternating current](http://en.wikipedia.org/wiki/Alternating_current) signal. They are widely used in many electronic devices. Common examples of signals generated by oscillators include signals broadcast by [radio](http://en.wikipedia.org/wiki/Radio_transmitter) and [television transmitters](http://en.wikipedia.org/wiki/Television_transmitter), clock signals that regulate computers and [quartz clocks](http://en.wikipedia.org/wiki/Quartz_clock), and the sounds produced by electronic beepers and [video games](http://en.wikipedia.org/wiki/Video_game).