Power over Ethernet POE

Power over Ethernet (POE) is essentially the supplying of power to a network device through ethernet cables. This allows network devices (powered device) to be placed in distant locations where electric power service is not readily available. The power sourcing devices then can be located where power is available.

Most implementations of Power over Ethernet are standardized while others are ad hoc. Power can be transmitted over unused Ethernet cable lines or on lines sharing data and dc power.

Uses of PoE include VoIP phones, Wireless access points, network routers, and wall clocks.

Power over Ethernet can be susceptible to heat and power transients. It is advisable to provide adequate ventilation so that heat build-up can be prevented. Also it is advisable to use transient voltage protectors or an uninterruptable power supply in the power supply side of PoE implementation.

Component Symbol