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The theory of In Wall Wireless Access Point (Mode: IWN2000\_US):

- 1, MCU: It can realize function control of system and communicate with external device; it contains Internet Eth/PSE and Phone port
- 2, Control Unit: it is control core of whole system, include CPU, interface drive circuit, and power manage; It contains Internet and Uplink/PoE port
- 3, RF Unit: perform encoding, modulation, amplification and transmitting, and receive amplification, demodulation, decoding; The Crystal Oscillator frequency is 25.000MHz. for radiating and receiving radio waves
- 4, Internet interface: Via internet interface can connect the In Wall Wireless Access Point to the PC or Ethernet;
- 5 Match NET: RF signal and the antenna impedance matching.
- 6, POE/PSE Module : The LTC4263-1 is a high power, single PSE controller for use in Power over Ethernet systems. The internal current limit and short-circuit protection are designed to provide up to 30W of PSE output power for power hungry PoE applications such as WAPs.
- 7, Antenna is a Chip antenna. The antenna gain is 2.5dBi.
- 8, LED light: Display current state of In Wall Wireless Access Point