The Aztech HL105EW is a Homeplug with 802.11b/g using Intellon 85Mbps Turbo chipset and Infineon Wireless LAN solution. Basically, there is a RJ45 socket, a reset button and 4 LED indicators for user interface.

When HL105EW adapter is turned on, the switching mode power supply circuit will have an AC to DC conversion in order to supply DC power of 3.3V, 1.8V and 12V. Then, Infineon ADM8668T network processor will start to boot up and communicate with Airoha AL2230 WLAN chipset. When WLAN_LKACT LED starts flashing consistently, the HL105EW is ready user application.

By the way, ADM8668T will communicate with INT5500 Intellon chipset and IP101A Ethernet PHY through two MII ports connection. INT1200 is the analog front end IC for power line communication. The data from INT1200 will go through a Tx path for signal amplifying and Rx path for incoming data filtering before connected to a coupling transformer.