POWER LINE

PSU
+5V@100mA
+3.3V@500mA
+1.8V@1A

ANTENNA

AFE SIP
PWR COUPLING

T1

INT1200
INT5500
Simple Module

ADM5120 BGA

U2

WIRELESS
CARD
ADM8262

MII

miniPCI

SDRAM
IC2

UART#0#1

FLASH ROM
IC1

Power line $\longrightarrow$ T1 powerline network signal coupling $\longrightarrow$ Simple module implement powerline network
signal conversion MII interface signal $\longrightarrow$ U2 ADM5120 controller $\longrightarrow$ Determine the modulation type ,
WLAN access point controller $\longrightarrow$ Mini PCI interface send out transmission signal $\longrightarrow$ Wireless Card
RF(2.412-2.484G) signal generator and control $\longrightarrow$ Antenna transmit signal out from Antenna