

# How to Enable Power Saving Functionality in Wi-Fi driver

If you would like to configure various Power Saving Function in Wi-Fi driver, you can follow as below instructions manual before compiling Wi-Fi driver.

- Main Power Saving Function
  - Enable Main Power Saving Function: According to the configuration of IPS, LPS and WOWLAN LPS Function to set various power saving mode.  
Set CONFIG\_POWER\_SAVING to "y" in Makefile as example.  
e.g. **CONFIG\_POWER\_SAVING = y**
  - Disable Main Power Saving Function: Close IPS, LPS and WOWLAN LPS Function.  
Set CONFIG\_POWER\_SAVING to "n" in Makefile as example.  
e.g. **CONFIG\_POWER\_SAVING = n**
- ※ The IPS, LPS, WOWLAN LPS functions are supported after v5.8 driver.
- IPS (Inactive Power Saving) Function
  - If the state of Wi-Fi driver is inactive when Wi-Fi connection is not established, enable the IPS function will reduce power consumption.
  - The CONFIG\_IPS\_MODE in Makefile is used for setting IPS mode that will be defined as follow:
    - default: Setting by driver
    - 0: Disable IPS
    - 1: Enable IPS
- LPS (Leisure Power Saving) Function
  - If Wi-Fi driver is stayed in idle or low traffic after Wi-Fi connection finished, enable the LPS function will reduce power consumption.
  - The CONFIG\_LPS\_MODE in Makefile is used for setting LPS mode that will be defined as follow:
    - default: Setting by driver
    - 0: Disable LPS
    - 1: Enable LPS
    - 2: Enable LPS with clock gating

- WOWLAN LPS Function
  - Enable the WOWLAN LPS function will reduce power consumption when Wi-Fi driver is in WOWLAN mode.
  - The CONFIG\_WOW\_LPS\_MODE in Makefile is used for setting WOWLAN LPS mode that will be defined as follow:
    - default: Setting by driver
    - 0: Disable WOWLAN LPS
    - 1: Enable WOWLAN LPS
    - 2: Enable WOWLAN LPS with clock gating