WGPS606 Operation Principle

- 1. CPU, U400, BCM53505S integrates 802.11b/g MAC+Baseband, 200-MHz MIPS32 core with a 3EDS/AES encryption engine, a USB host and device interface for printer server, and a configurable five- port 10/100Mbps Enthernet switch.
- 2. FLASH, U801, MX29LV160BBTC-90, 16Mbits Flash, Bottom sector, and 90ns. It is used to store the normal and test firmware.
- 3. Integrated 2.4GHz ISM Band RF-Baseband Transceiver, U2, BCM2050KML provide a fully integrated 802.11b/g RF solution. The radio supports all data rate and modulation formats required by 802.11b/g and has the lowest power dissipation.

The BCM2520KML incorporates the complete RF receive and transmit paths including; phase lock loop (PLL), voltage controlled oscillator (VCO), low-noise amplifier (LNA), downconverter, upconverter, modulator and filter.

- 4. 2.4GHz 2.5GHz Power Amplifier, U23, the AWL6153 is a power amplifier optimized for WLAN applications in the 2.4GHz-2.5GHz frequency range.
- 5. Power part: derives its power from a 12V DC power adapter which needs to be converted to 1.8V,3.3V and 5V DC.
- 6. LED part:

Power: on/off/blink: Green, Amber;

- h Green: On Power on and working mode
- h Amber: Blinking Reset to Factory Default
- h Amber: Solid Diagnostics Error LPT 1: on/off/blink: Amber/Green
- h Off Printer detached
- h Green: on Printer Ready
- h Green: Blinking Data Transmission
- h Amber: Solid LPT Error
 - **LPT 2:** on/off/blink: Amber/Green
- h Off Printer detached
- h Green: on Printer Ready
- h Green: Blinking Data Transmission
- h Amber: Solid LPT Error

Wireless: on/off/blink: Blue

Alternate Blinking: Looking for network association

h Slow-Rate : Associated or joined with the network; no activity

- Fast-Rate : Associated or joined with the network; activity on the network
 LAN1 ~ LAN 4: Green/Amber
- h Green: 100Mpbs
- h Amber: 10Mbps
- h Blinking: Activity

Interface:

- o 4 RJ-45 Port (LAN)
- o 2 USB Interface (Print Server)
- o 1 Reset button
- Power Jet

Operating Temperature: 0-40C Operating Humidity: 10-90% RH Storage Temperature: -20-70C Storage Humidity: 5-95% RH Transmit Power: (802.11b-19 dBm+-1.5dbm)(802.11g-17dbm+-1.5dbm) Antenna Diversity: Yes