

ASKEY

802.11b/g/n Printer Dongle

WPA5151

OPERATION

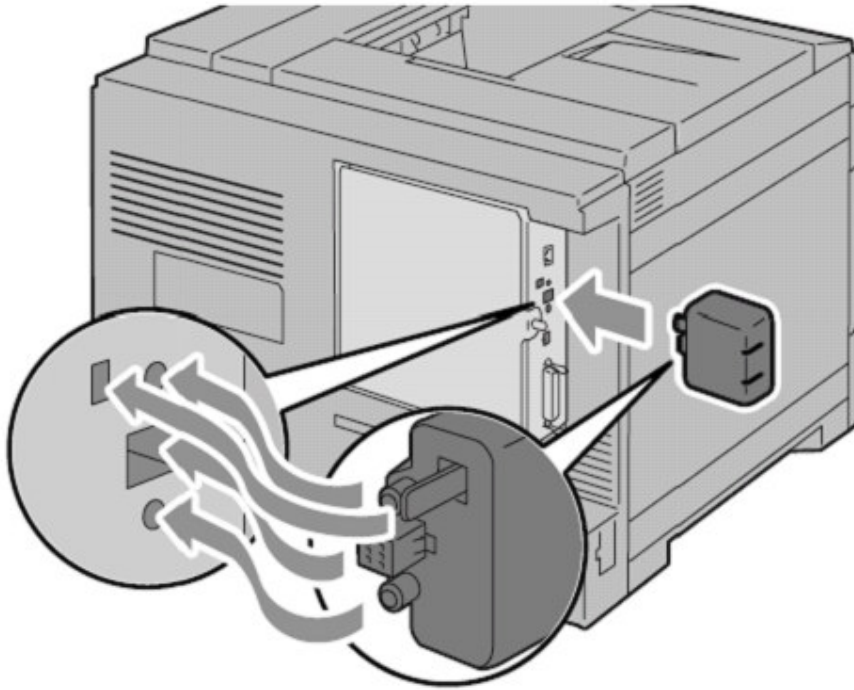
MANUAL

V01

1. Description

WPA5151 is an 802.11b/g/n dongle that provides wireless connectivity to an existing printer. The product is put into the printer to connect with Wireless AP Router and user, while any user need to be printing any documents through wireless, WPA5151 is better choice for use.

The connect diagram as below:



2. Physical Installation

The WPA5151 uses a unique connector and mounting technique that only allow it to connect to EPSON compatible printers. It is not intended to be connected to any other devices.

No tools are required.

To install:

Power off the printer

Align the WPA5151 with the appropriate connector and mounting holes on the printer.

Push until the WPA5151 is secured.

Power on the printer.

3. Product Spec.

Form factor	802.11b/g/n Dongle
Chipset	Broadcom BCM4319
Operation Voltage	3.0VDC ~ 3.6VDC
Network Standards	IEEE 802.11b/g/n
Modulation Techniques	DBPSK, DQPSK, CCK, BPSK, QPSK, 16QAM, 64QAM
Modulation Technology	OFDM, DSSS with proprietary operation at 65Mbps(max.) within 20MHz (HT20)
Data Rate	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps HT20: 65 Mbps (MCS7)
Network Architectures	Infrastructure and Ad Hoc
Operating Frequencies	2.412 – 2.462 GHz
Antenna Type	Fractal-Antenna
Operating Channels	802.11b: 11 for North America; 13 for Europe; 14 for Japan 802.11g: 11 for North America; 13 for Europe; 14 for Japan (Operation is limited in firmware to meet national regulations, not changeable by the user)
RF Output Power	802.11b: 17.0 dBm +/- 1.5 dBm 802.11g: 17.0 dBm +/- 1.5 dBm 802.11n: 14.0 dBm +/- 1.5 dBm
Receiver sensitivity (PER < 10%)	802.11b: -85dBm @ 11Mbps and PER < 8% 802.11g: -70dBm @ 54Mbps and PER < 10% 802.11n: -68dBm @ MCS 7 B.W 20MHz and PER < 10%
Power Consumption	TX: 330mA @ 1Mbps; 215mA@54Mbps; 250mA@MCS7 RX: 120mA
Security	1. WPA™ (personal) and WPA2™ (personal) certified for powerful encryption and authentication 2. AES and TKIP in hardware for faster data encryption and IEEE 802.11i™ Compatibility.
Software Support	Windows® CE 5.0, Linux®, Windows® XP
Temperatures (AMBIENT)	Operates from 0 to 70°C; Storage from -40 to 70°C
Humidity (non-condensing)	5 to 95 %
Unsupported operation	WIN 98 and WIN ME
Manufacturer ID	PID: BD 16
Product ID	VID: 0A5C

4. Setup Operation

Refer to operating manual of the printer for how to configure the wireless connection.

USA - Federal Communications Commission (FCC)

FCC Radiation Exposure Statement



CAUTION:

• The radiated output power of WiFi Module 802.11bgn devices is far below the FCC radio frequency exposure limits. Nevertheless, WiFi Module 802.11bgn devices should be used in such a manner that the potential for human contact during normal operation is minimized. To avoid the possibility of exceeding the FCC radio frequency exposure limits, you should keep a distance of at least 20cm separation from the WPA5151 once installed on the printer.

Interference Statement

This device complies with Part 15 of the FCC Rules. Operation of the device is subject to the following two conditions: (1) The device may not cause harmful interference, and (2) The device must accept any interference that might cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If the equipment is not installed and used in accordance with the instructions, the equipment might cause harmful interference to radio communications. There is no guarantee, however, that such interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment off and on), the user is encouraged to try to correct the interference by taking one or more of the following measures:

- . • Relocate this device.
- . • Increase the separation between the device and the receiver.
- . • Connect the device into an outlet on a circuit different from that of other electronics.
- . • Consult the dealer or an experienced radio technician for help.



NOTE:

. • WPA5151 must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. Any other installation or use will violate FCC Part 15 regulations. Modifications not expressly approved by ASKEY could void your authority to operate the equipment.

The WPA5151 must not be collocated with any other transmitters. Keep a 20cm separation from other transmitter antennas.

Canada. Industry Canada (IC)

This device complies with RSS210 of Industry Canada.



CAUTION: Exposure to Radio Frequency Radiation. The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population. Consult Safety Code 6, obtainable from health Canada's website www.hc-sc.ca/rpb.

Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.