

Product Specification

Hardware Specification

Standards	IEEE 802.11b/g/n
Operating Frequency	USA: 2.400 ~ 2.4835 GHz Europe: 2.400 ~ 2.4835 GHz Japan: 2.400 ~ 2.497 GHz
Host Interfaces	PCI Express 1.1
Operation Voltage	3.3V +/- 10%
Data Rate	802.11b: 1, 2, 5.5 and 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps. 802.11n: 20 MHz BW: 150, 130, 117, 104, 78 * 40 MHz BW: 300, 270, 243, 216, 162, 108 * *Many other data rates are supported by the hardware
Modulation Schemes	DSSS with DBPSK, DQPSK, CCK OFDM with BPSK, QPSK, 16QAM, 64QAM
MAC Protocol	CSMA/CA with ACK architecture 32-bit MAC
Operating Channels	11 for North America, 13 for Europe, 14 for Japan
Antenna Connectors	Two antennas allowing transmission or reception on both, simultaneously.

Transmitter Output Power

CCK	18.0 dBm
Legacy OFDM 20MHz SISO	15.5 dBm
Legacy OFDM 20MHz CDD	15.5 dBm
MCS 0-7 20MHz SISO	15.5 dBm
MCS 8-15 20MHz SDM	15.5 dBm
Legacy OFDM 40MHz SISO	14.5 dBm
Legacy OFDM 40MHz CDD	14.5 dBm
MCS 0-7 40MHz SISO	14.5 dBm
MCS 8-15 40MHz SDM	14.5 dBm
MCS 32	14.5 dBm

***Note: this target power means single chain**

WLAN Receiver Sensitivity

Mode	Data Rate	Minimum Sensitivity (dBm)
802.11 b	1 Mbps	94
802.11 b	11 Mbps	88
802.11 g	6 Mbps	88
802.11 g	54 Mbps	73
802.11 n HT20	MCS 0	86
802.11 n HT20	MCS 7	69
802.11 n HT20	MCS 15	67
802.11 n HT40	MCS 0	85
802.11 n HT40	MCS 7	67
802.11 n HT40	MCS 15	65

* This is draft and will be modified according to Broadcom final specification.

Current Consumption

Test status	ASPM L0 (normal)		ASPM L1 (power saving)	
	Current (mA)	Power (W)	Current (mA)	Power (W)
Module Disable	72	0.24	72	0.24
Idle(unassociated)	97	0.32	72	0.24
Idle(associated)	121	0.40	95	0.31
Search (only for scan AP)	272	0.90	246	0.81
Transmit (max throughput)	740	2.44	740	2.44
Receive (max throughput)	650	2.15	650	2.15
S3/S4 (Standby/Hibernate)	22	0.0726	22	0.0726

*Note: this power consumption means only typical value.

Product Name: BCM3379 Wireless eMTA For Modular:802.11b/g/n WLAN

Model Number: DVW2100

FCC Notice

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

Federal Communication Commission Interference Statement

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 and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that 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 one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Only the type of dipole antenna tested may be used.

The end product must carry a label stating "Contains FCC ID:XCNDVW2100".