



Certificate of Compliance

The Laboratory certifies that the device complies with the following specifications

CFR 47 part 15.247

Test report No.: 221FCC15.247-2001 dated 2002-01-08

ETS 300 328 :Nov. 1996

EN 300 328-1 :2000-07

EN 300 328-2 :2000-07

Test report No.: 221ETS328-2001 dated 2002-01-08

Product description: Wireless LAN Access point

Model No.: **WL-306**

Manufacturer
3COM Corporation
5400 Bayfront Plaza
Santa Clara, CA 95052

Test laboratory:
CETECOM Inc.
411 Dixon Landing Road
Milpitas, CA 95035

FCC registration No.: 101450

Industry Canada Registration: IC-3925

The wireless LAN was tested with different antenna configurations. The different antennas and power settings to be used are described in annex 1 of this certificate

Milpitas, 16 January 2002
Place, date


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Technical Manager EMC/Radio

Annex1

WL-306 EIRP measurements

The WL 306 was tested with a combination of power settings and antennas. Some of the antennas were identical except the length of the cable (cable has a fix connection to the antenna).

Two tables were added to reflect the different power requirements in the USA and Europe.

The device will be delivered with cable length of 6, 20, and 50 ft. (2, 6 and 15 m). The measurements were done with the antenna with the highest gain and the maximum power setting for the different cable lengths. (See values in the table below.)

The lower gain antennas were verified by calculation.

The calculation was based on the antenna gain data and the cable attenuation of 19 dB/100ft.

The difference in power settings between setting 160 and 110 is 9 dB.

The device will be manufactured with two different amplifiers. The amplifiers have slightly different amplification over the frequency range. The amplifier with the highest amplification was chosen for the final full test measurement and checks were performed for all applicable tests to ensure that the alternative power amplifier was also fully compliant.

The following tables show the max combination of antenna, cable length and power settings. It includes also the max values for the different power amplifiers RFMD and Infineon).

The power level will be set by the manufacturer and is not accessible for the user.

The following antenna, cable and power setting were determined to be compliant with the specifications:

FCC requirements

Power Level Setting	Antenna cable/ft	Antenna gain/ dBi	“pc” value	Power Amp	Result
High	20	18	160	RFMD	27.97 dBm**)
	20	18	160	Infineon	27.30 dBm**)
	50	18	160	RFMD	24.78 dBm**)
	50	18	160	Infineon	24.38 dBm**)
	6	13	160	RFMD	Pass
	6	13	160	Infineon	Pass
	20	13	160	RFMD	Pass
	20	13	160	Infineon	Pass
	50	13	160	RFMD	Pass
	50	13	160	Infineon	Pass
	6	8	160	RFMD	Pass
	6	8	160	Infineon	Pass
	20	8	160	RFMD	Pass
	20	8	160	Infineon	Pass
	50	8	160	RFMD	Pass
	50	8	160	Infineon	Pass
Medium	50	18	140	RFMD	Pass chan 13 can be used with this settings
	50	18	140	Infineon	Pass chan 13 can be used with this settings
	20	18	110	RFMD	Pass chan 13 can be used with this settings
	20	18	110	Infineon	Pass chan 13 can be used with this settings
	6	18	110	RFMD	Pass
	6	18	110	Infineon	Pass
Low power (1)	6	18	76	RFMD	Pass
	6	18	76	Infineon	Pass
Low power (2)	6	18	66	RFMD	Pass
	6	18	66	Infineon	Pass
Note: All lower gain antennas and cable combinations not detailed above (4dBi, 2dBi etc) are covered by the above worst case measurements for FCC.					
**) Only the use up to channel 11 is allowed. Channel 12 and 13 are restricted (manual page 13)					

Annex1

ETS/EN Requirements

Power Level Setting	Antenna cable/ft	Antenna gain/ dBi	“pc” value	Power Amp	Result
High	50	18	160	Infineon	Pass
	50	13	160	RFMD	Pass
	50	13	160	Infineon	Pass
	50	8	160	RFMD	Pass
	50	8	160	Infineon	Pass
	50	4	160	RFMD	Pass
	50	4	160	Infineon	Pass
	20	2.5/ 2	160	RFMD	Pass
	20	2.5/ 2	160	Infineon	Pass
	6	1	160	RFMD	Pass
	6	1	160	Infineon	Pass
Medium	50	13	110	RFMD	Pass
	50	13	110	Infineon	Pass
	6	8	110	RFMD	Pass
	6	8	110	Infineon	Pass
Low (1)	6	18	76	RFMD	Pass
	6	18	76	Infineon	Pass
Low (2)	6	18	66	RFMD	Pass
	6	18	66	Infineon	Pass
Note: All lower gain antennas and cable combinations not detailed above (4dBi, 2dBi etc) are covered by the above worst case measurements for the EU.					