FCC ID: NUSTMW885A-2

Annex P User's Manual (Draft)

User's Manual

(Draft)

TOKO INC.

2.4GHz Wireless LAN Card Model:TMW885A-2

FCC Warning

Information to the User

This equipment has been tested and found to comply with the limits for a class B-digital device pursuant to part 15 of 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 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 or more 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 and for additional suggestions.

The user may find the following booklet prepared by the Federal Communica-

Problems." This booklet is available from the U.S. Government Printing Office, Washington, D C 20402, Stock No. 004-000-00345-4.

FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

1. FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to 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.

This equipment has been tested and found to comply with the limits for a Class B Personal Computer and Peripheral, 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 or more 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.

This equipment has been tested to comply with the limits for a Class B personal computer and peripheral, pursuant to Subpart B of Part 15 of FCC Rules. Only peripherals (computer input/output devices, terminals, printers, etc.) certified (DoC) or verified to comply with the Class B limits may be attached to this equipment. Operation with non-certified (DoC) or non-verified personal computer and/or peripherals is likely to result in interference to radio and TV reception. The connection of a unshielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

2. CAUTION
Exposure to Radio Frequency radiation Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limits.
This card is designed to operate with a supply voltage of 3.3V in laptop computers supporting the dual 3V/5V PCMCIA standard. Permanent damage may occur if operated on 5V.

3. Feature

- Completely Covered Assembly is designed to Fully packaged in a PCMCIA Type II extended cover set.
- Support for 11, 5.5, 2 and 1 Megabit Per Second (Mbps) Data Rates.
- Supports the IEEE 802.11 Direct Sequence Specification.
- Driver Supports Microsoft® Windows® 95 OSR2, 98, 2000. ※1
- Advanced RAKE Receiver Design with AGC.

※ 1 Microsoft® and Windows® and Windows NT® are registered trademarks of Microsoft Corporation.

4. Specifications

· Absolute Maximum Ratings

Supply Voltage. . . . . -0.3V to 4.0V (Max)

Storage Temperature ※2 . . . . . –10°C to 60°C

※2 All temperature references refer to ambient conditions.

· Operating Conditions

Temperature Range . . . . . 0°C T_A 55°C

Supply Voltage Range . . . . . .3.0V to 3.6V

Caution: These are the absolute maximum ratings for the PC Card product.

Exceeding these limits could cause permanent damage to the card.

· Electrical Specifications

Test Conditions: Supply Voltage (V_{CC}) = 3.3V, Ambient Temperature (TA) = 25°C,Unless Otherwise Specified

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
MECHANICAL	Type II PC Card,with Antenna Extension				
CURRENT CONSUMPTION					
Continuous Transmit Mode		-	310	400	mA
Continuous Receive Mode		-	210	280	mA
PC CARD LOGIC LEVELS					
Input HIGH Voltage		0.7Vcc	-	Vcc+0.2	V
Input LOW Voltage		0	-	Vcc/3	V
Output HIGH Voltage	Sourcing 1mA	Vcc-0.2	-	Vcc	V
Output LOW Voltage	Sinking 2mA	0	-	0.2	V
Input Leakage Current		-10	-	10	μA
PC CARD LOADING CAPACITANCE					
Input Capacitance		-	-	15	pF
Output Capacitance		-	-	15	pF
RF SYSTEM SPECIFICATIONS					
Center Frequency Range		2412	-	2462	MHz
IF Frequency		-	374.25	-	MHz
IF Bandwidth		-	17	-	MHz
Antenna Gain		-	0	-	dBi
Transmitter Power Output		-	+11.5	-	dBm
EIRP		-	+11.5	-	dBm
Receive Sensitivity	5.5Mbps, 8% PER	-	-85	-	dBm
	11Mbps, 8% PER	-	-80	-	dBm
Maximum Receive Level	PER <8%	-4	-	-	dBm
Third Order Intercept Point (Input)	-90 dBm input	-16	-3	-	dBm
	-25 dBm input	+10	+20	-	dBm
Data Rate (Physical Layer)		-	1, 2, 5.5,11	-	Mbps

5. Installation

① The following work is done with card(TMW885A-2) not inserted in PC.

② Setup.exe in Driver Disk1 is executed.

③ Please input the key to setting utility according to the instruction displayed on the screen.

④ The message of the purport by which PC is rebooted is displayed.
Please reboot PC.

⑤ Please insert card(TMW885A-2) in PC.

⑥ The installation of the driver is automatically completed.

⑦ The networks and communication channel and the communication mode are set.

⑧ Please set the network according to the manual of OS.

⑨ The communication mode and the communication channel are set by utility in the task tray.
The communication mode is set in "Adhoc". The communication channel is made the same as the other party of the communication set . Channels which can be set are from 1 to 11.