

SparkLAN Communications Inc.

DATE: March 9th, 2020

TIMCO ENGINEERING Inc.

849 N.W. State Road 45 P.O. Box 370 Newberry, Florida 32669

Attn: Director of Certification

SUBJECT: SparkLAN Communications Inc.

FCC ID: RYK-WUBR508N

Class II Permissive Change

Orig. Grant Date : June 11, 2012

Gentlemen:

This is to request a Class II permissive change for FCC ID: RYK-WUBR508N

Transmitted herewith is an application for a Class II Permissive Change Certification of the WiFi module.

- No hardware and software changes have been made.
- There is no increase in the maximum output power rating than original grant conditions.

1) RF exposure condition

SAR Testing is performed to demonstrate RF Compliance

Following condition was changed to original condition:

Items	Original	Permissive change
RF exposure condition	Minimum distance 20 cm between the radiator and human body	Installed in Digital Flat Panel X-ray Detector manufactured by applicant.

2) The device is identical to the previously WiFi module except for the following changes.

(Software Security remains unchanged from original application.)

The change filed in this application is:

Original antenna used in the module:

Trnasmitter Outputs & Receiver Inputs Informaion			
Modulation	Transmitter Outputs	Receiver Inputs	Transmitter Output Signals
802.11b/g	1	1	-
802.11n HT20/HT40	2	2	-
802.11a	1	1	-

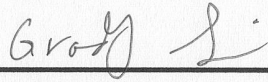
Antenna General Information								
Antenna Port					1(TX/RX), 2(TX/RX)			
Maximum RF Output Power Level(PL)					1			
Trans Chains Power Distribution					Symmetrical distribution			
Modulation	Ant No.	PL	Ant.Port (Ant No.X connect to Ant. Port y)	Ant. Cat.	Ant. Type	Brand	Model	G _{ANT} (dBi)
802.11b/g	1	1	1	External	Dipole	Lct	FDE_ACBSMA-BGP	3.67
802.11n HT20/HT40		1	2	External	Dipole	Lct	FDE_ACBSMA-BGP	3.67
802.11a	1	1	1	External	Dipole	Lct	FDE_ACBSMA-BGP	5.97
802.11n HT20/HT40		1	2	External	Dipole	Lct	FDE_ACBSMA-BGP	5.97

Modified antenna used in the Flat Panel Digital X-ray Detectors:

Trnasmitter Outputs & Receiver Inputs Informaion			
Modulation	Transmitter Outputs	Receiver Inputs	Transmitter Output Signals
802.11b/g	1	1	-
802.11n HT20/HT40	2	2	-
802.11a	1	1	-

Antenna General Information								
Antenna Port					1(TX/RX), 2(TX/RX)			
Maximum RF Output Power Level(PL)					1			
Trans Chains Power Distribution					Symmetrical distribution			
Modulation	Ant No.	PL	Ant.Port (Ant No.X connect to Ant. Port y)	Ant. Cat.	Ant. Type	Brand	Model	G _{ANT} (dBi)
802.11b/g	1 (Top)	1	1	Internal	Dual band PCB Antenna	PINCRAFT ENG.	F600	-5.5
802.11n HT20/HT40		1	2	Internal	Dual band PCB Antenna	PINCRAFT ENG.	F600	2.1
802.11a	1 (Side)	1	1	Internal	Dual band PCB Antenna	PINCRAFT ENG.	F600	-3.6
802.11n HT20/HT40		1	2	Internal	Dual band PCB Antenna	PINCRAFT ENG.	F600	-0.4

Sincerely Yours,



Name :Grady Lin

Title : R&D Department, Director

Company : SparkLAN Communications, Inc.

8F.,No.257, Sec. 2, Tiding Blvd., Neihu District, Taipei City 11493, Taiwan