RF Card 802.11g 8-0717-xx

User Guide

Version 2.0

November 29, 2005

A. Specifications

Compact Flash
Joinpact Flaori
Compact Flash Type I
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MARVELL 88W8385 + 88W8015
DC 3.3V
EEE 802.11g/b
DBPSK, DQPSK, CCK, 16QAM, 64QAM,
DSSS and OFDM
302.11b: 11, 5.5, 2, 1 Mbps
302.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
nfrastructure and Ad Hoc
2.4 – 2.5 GHz
302.11b/g: 1-11 for North America
Before antenna
302.11b (1M,2M,5.5M,11M) : 14 dBm
302.11g (6M,9M,12M,18M,24M,36M, 48M,54M) : 15 dBm
302.11b:1M=-90dBm,2M=-90dBm,5.5M=-90dBm,11M=-87dBm
302-11g:6M=-83dBm,9M=-83dBm,12M=-83dBm,18M=-83dBm,24M=-81dBm
36M=-78dBm,48M=-74dBm,54M=-73dBm
Гх реак: 500mA @ 3.3VDC; Rx peak: 275mA @ 3.3VDC
3.3V
WEP 64-and 128-bit encryption with hardware TKIP processing.
● WPA
Multi-path R.M.S Delay Spread @ 10%FER
680 ns in 11M mode,150ns in 54M mode
Windows CE 4.2 & CE 5.0,.Linux
Operates from -20 to 70
Storage from -40 to 120
5 to 95%*
Wi-Fi Pretest*; FCC part 15C/15.247*; ETS 300 328-2*; UL*; IEC60950*; EN 301
189-1,17*; prEN50371*;CE Mark*; TELEC*

^{*}Perform approved procedure is based on customer's request.

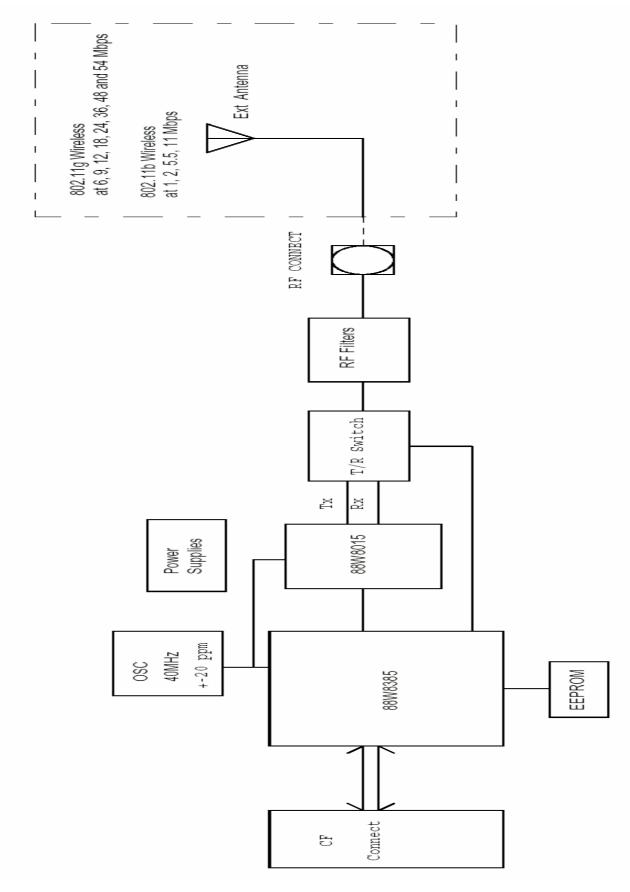
B. Marvell WLAN 802.11b/g CF8385PN Software Feature

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Core Features	Short preamble	
	802.11b, 802.11g, and g/b mix-mode infrastructure	
	802.11b and 802.11g Adhoc mode	
	Transmit fragmentation and receive defragmentation	
	Client IEEE Power Save Infrastructure & Adhoc mode	
	Basic rate adaptation - 11g/b for optimizing each STA throughput	
	Background scan	
Security	64/128-bit WEP Encryption and open/shared authentication	
	WPA PSK	
	WPA 802.1x	
	WPAII PSK**	
	WPAII 802.1x**	
	Cisco CCX V1 (LEAP)**	
	Hardware AES	
	AH Security	
IEEE Standards	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11d**	
	IEEE 802.11e (EDCA)**	
	IEEE 802.11e (HCCA)**	
Other Standards	Wi-Fi WME**	
	Wi-Fi WSM APSD**	
	Windows CE.net (CE4.2, CE5.0)	
Drivers for the following	Windows Pocket PC 2003	
Operating Systems	Windows Mobile Edition	
	Linux 2.4.22 and above	
Network Protocol	TCP/IP, IPX	

^{**} NOTE **

The transmitter module is authorized for use in specific End-product (Falcon 4420 Mobile Computer with and without Handle). The OEM integrator is still responsible for testing their end product for any additional compliance requirements required with this module installed.

C. Block Diagram



^{***}Subject to be changed without notice.

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. 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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

This device is intended only for OEM integrators under the following conditions:

The transmitter module may not be co-located with any other transmitter or antenna.

As long as conduction above is met, further <u>transmitter</u> test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions <u>can not be met</u> (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID <u>can not</u> be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

The final end product must be labeled in a visible area with the following: "Contains TX FCC ID: O9NFALCON11BG".

Manual Information That Must be Included

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the users manual of the end product which integrate this module.

The users manual for OEM integrators must include the following information in a prominent location "IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements. The antenna must not be co-located or operating in conjunction with any other antenna or transmitter.