

Reviewing Engineer Federal Communications Commission 7435 Oakland Mills Road Columbia, MD 21046

Re: Hotport 3200; FCC ID # REP-3200-2

To Whom It May Concern:

The radio module used in the Hotport 3200 is an "off-the-shelf" product produced by Wistron NeWeb Corporation (Hsinchu, Taiwan). The model number of the radio module is CM9. The CM9 is Wistron's version of the 802.11a/b/g mini PCI card developed by Atheros Communications (Sunnyvale, CA). The Atheros AR5213 (MAC) and AR5112 (Radio) IC's are designed to cover the 4.9 – 5.8 GHz band, as shown in the attached product brief.

Firetide purchases the CM9 module from Wistron as a tested and calibrated card. No tuning or programming of the CM9 card prior to final assembly is performed by Firetide. Tuning of the Hotport 3200 (output power and operating frequency) is done by using the HotView SW application provided with each unit. With Hotview, the end user can change the operating frequency to pre-set/pre-defined channels and can change (increase/decrease) the TX output power. The end user can only increase the power <u>up to</u> a factory set limit and not beyond. The factory set limit is based on the TX power levels measured during the FCC certification testing.

Please contact me if there is any information you may need.

Sincerely, -

Date: October/11 /2005

Hoss Hakimi Director of Hardware Engineering Firetide Inc. 16795 Lark Ave. Suite 200 Los Gatos, CA 95032





Multi-standard 802.11a/b/g support for universal wireless connectivity to any 802.11 network, future-proofs WLAN deployments and delivers the highest performance.





AR5004X Solution Highlights

- Support for IEEE 802.11a, 802.11b, 802.11g
 Universal wireless connectivity for seamless roaming between any
- 802.11-based network Uses digital CMOS technology exclusively, minimizing power
- consumption and cost while maximizing reliability Highly integrated 2-chip set
- King and a second second
- end user throughput exceeding 60 Mbps
- · Super AG utilizes Adaptive Radio to automatically identify clear channels for maximum throughput and standards compatible operation
 Hardware encryption for the Wi-Fi Protected Access (WPA) and IEEE
- 802.11 security specifications, provides Advanced Encryption Standard (AES), Temporal Key Integrity Protocol (TKIP) and Wired
- Equivalent Privacy (WEP) without performance degradation Extended turning range (2.200-2.500 & 4.900-5.850 GHz) for worldwide use Dynamic Frequency Selection/Transmit Power Control (DFS/TPC) for international operation
- Support for draft IEEE 802.11e, h, i and j standards
 eXtended Range (XR) technology to give Wi-Fi products twice the range of existing designs
- Power-saving design improvements reduce system power consumption by 60%.

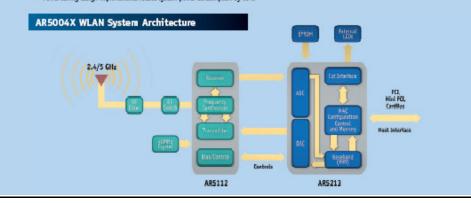
AR5112 Dual Band Radio-on-a-Chip

- All CMOS dual band radio chip
 Dynamic IF Dual Conversion architecture provides super-heterodyne
- performance at Zero IF prices
- Support for IEEE 802.11a, 802.11b, 802.11g
- Operates from 2.300 2.500 GHz and 4.900 5.850 GHz
- Integrated power amplifier (PA) and low-noise amplifier (LNA)
 External PA and/or LNA can be used for special applications
- · Eliminates all IF filters and most RF filters; no external voltage-controlled
- oscillators (VCOs) or surface acoustic wave (SAW) filters needed Increased sensitivity and multipath tolerance
- Enhanced transmit and receive chains

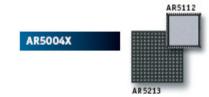
AR5213 Multiprotocol MAC/baseband processor

Supports both 2.4 GHz and 5 GHz RoCs

- Super AG mode includes dynamic 108 Mbps capability, real-time hardware data compression, Fast Frames and standards-compliant bursting eXtended Range (XR) technology
- No external FLASH or RAM memory needed
- PCI 2.3 and PC Card 7.1 host interfaces with DMA support
 Integrated analog-to-digital and digital-to-analog converters
- Serial EEPROM, LEDs, GPIOs peripheral interfaces
- ver operational and sleep modes . Low po







	4.900 to 5.850 GHz and 2.300 to 2.500 GHz	
Network Standard	802.11a, 802.11b, 802.11g	
Modulation Technology	OFDM with BPSK, QPSK, 16 QAM, 64 QAM; DBPSK, DQPSK, CCK	
EC Coding Rate	1/2, 1/3, 1/4	
Hardware Encryption	AES, TKIP, WEP	
Quality of Service	802.11e draft	
Media Access Technique	CSMA/CA	
lost Interface	Mini PCI, CardBus, PCI	
Peripheral Interface	GPIOs, LEDs	
Memory Interface	EEPROM	
Supported Data Rates		
EEE 802.11a	6 to 54 Mbps	
EEE 802.11b	1 to 11 Mbps	
EEE 802.11g Atheros Super AG Mode	1 to 54 Mbps Up to 108 Mbps	
thip Specifications		
Descriptions Malta as	AR5112	AR5213
Operating Voltage	2.5V +/-5% 3.3V +/-10%	1.8V +10%, -5% 3.3V +/-10%
Package Dimensions	9mm x 9mm	15mm x 15mm
Package	64 Leadless Plastic 196 Plastic Ball	
	Chip Carrier	Grid Anay

AR5004X 802.11a/b/g CardBus



- Windows® drivers for Windows XP, Windows 2000, Windows ME, Windows 98 SE and Windows NT 4.0
 A single driver and firmware code base supports all.
- A single driver and firmware code base supports all Atheros chipsets, and provides both backward and forward compatibility with Atheros previous and next-generation multi-standard designs.
- Integrated WPA supplicant supports Windows XP, Windows 2000, Windows ME, Windows 98 SE and Windows WT 4.0
- Client utility supports configuration profiles, current link status, statistics and diagnostics

