



25<sup>th</sup> Nov 2013

To,

FCC Labs,  
7435 Oakland Mills Rd Columbia, MD 21046

Sub: Confirmation letter on the similarities between Firetide FWB 205 and HotPort 5020 Mesh

This letter serves as an official confirmation letter on the similarities between Firetide FWB 205 & 5020 Hotport WAN Model with respect to DFS Certification.




– Required Information	FCC ID REP F205-1 Approved DFS	FCC ID of New Application REP-5020-1-Firetide
Technology: (i.e.; 802.11x, frame based, MIMO, smart antenna, etc.)	MIMO 3x3 Technology 802.11x – Not applicable Smart Antenna Not supported	MIMO 3x3 Technology 802.11x – Not applicable Smart Antenna Not supported
Bandwidth information and differences	20 and 40 MHz Bandwidth Supported (5 & 10MHz for 4.9GHz)	20 and 40 MHz Bandwidth Supported (5 & 10MHz for 4.9GHz)
Antenna information and differences for the minimum gain antennas	5dBi Omni directional antenna and Patch antenna with gain of 19dBi	5dBi Omni directional antenna and Patch antenna with gain of 19dBi
Differences in DFS functioning, circuitry, software, etc.		
DFS Functioning	When a node detects radar, the DFS algorithm on the node selects a new channel and informs its neighbouring nodes about its selection. The neighbours acknowledge the proposal and move to the new channel. The node that detects the radar acts like the master. The radar detection and new channel selection logic is local and immediate	When a node detects radar, the DFS algorithm on the node selects a new channel and informs its neighbouring nodes about its selection. The neighbours acknowledge the proposal and move to the new channel. The node that detects the radar acts like the master. The radar detection and new channel selection logic is local and immediate
Circuitry & Processor	Schematic, Layout ,BoM and PCBA Atheros	Schematic, Layout, BoM and PCBA DDR memory and Flash upgraded with higher capacity Atheros



– Required Information	FCC ID REP F205-1 Approved DFS	FCC ID of New Application REP-5020-1-Firetide
Radio	400mW DNMA -H5 Radio is used	400mW DNMA -H5 Radio is used
Firmware Operating System	Linux OS	Linux OS
Ethernet ports	One Ethernet port	One Ethernet port
LED's	3 visible LED's Power, 2.4GHz and 5GHz	3 visible LED's Power, Radio 1 and Radio 2
Branding	FWB 205 Wireless Bridge with Firetide Logo	Hot Port 5020 Wireless Mesh with Firetide Logo
Certification Lab with Reports	Met Labs	Met Labs

Please contact if you need further information

Thanking you,  
Yours Sincerely,

(  )

Hardware Manager  
Firetide