

STA /EXPERIMENTAL LICNESE INFORMATION

Type of Service Requested:

☒ New Experimental License (X) 2yr or () 5yr –requires special justification

☐ New Special Temporary Authority (STA, 6month)

☐ Modify/Extend existing Experimental License

Call letters or file number: _____

Full Company Name: Aperto Networks Inc

FRN of Company or Contact: SRINIVAS BOKKA

Company Federal Tax ID or EIN (U.S. based companies): 77-0504790

Full Contact Name:	Srinivas Bokka
Contact Mailing Address:	598 GIBALTAR DR MILPITAS CA 95035
Contact Telephone Number:	408-519-2924
Contact Fax Number	
Contact email address	sbokka@apertonet.com

Reason for the Experimental License

Description of Experiment or Research (detailed) –

Aperto Networks is a manufacturer of broadband wireless WiMAX systems that operate in multiple frequency bands. This application is for a new experimental license that will be used to test products that operate in the 2.5GHz band. The purpose of the experiments is to verify system coverage and performance at multiple sites under different propagation conditions. Two base stations (BS) and up to 10 mobile stations (MS) will be used in the experiments. All systems to be used are TDD and have the capability to operate in the 2.496-2.69 GHz band using up to 10MHz channel size.

We would like 2x10MHz allocation for this experiment and we would prefer a 10MHz channel in the 2.496-2.6GHz band and a second 10MHz channel in 2.6-2.69GHz band.

Specific Objectives to be covered (detailed) –

This application is for a new experimental license that will be used to test products that operate in the 2.5GHz band. The purpose of the experiments is to verify system coverage and performance at multiple sites under different propagation conditions.

List of attached documents, if any

1. Base Station Datasheet: PM4000_Product_Specification.pdf
2. 2.5GHz Base Station Radio: 16e_2.5G_BSR_Product_Specification.pdf
3. Outdoor CPE: PM400_Product_Specification.pdf
4. Basic Indoor Modem: PM500_Product_Specification.pdf
5. Antenna specifications: 16e_2.5GHz_antennas.zip

Will confidentiality be requested per section 0.459 of FCC Rules for any attached document, transmitting equipment, or other company sensitive equipment? No

If yes, please describe and provide justification

STA Information

Event Name	
STA Start / End Dates : (including setup/test)	

Transmitter Equipment and Station Details

Base Station Equipment Mfr and P/N:	Aperto Networks PacketMAX PM4000
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Number of Fixed Units:				2
Location of Fixed Antennas (Lat / Lon, Street Address)				1) 598 Gibraltar Dr, Milpitas, CA 95035 (37.417 / -121.89)
				2) 2236 Bentley Ridge Dr, San Jose, CA 95138 (37.29/-121.77)
				3)
<u>NAD 27</u>	XX	<u>NAD 83</u>		Etc)

(X) Mobile or (X) Fixed Subscriber Station Equipment Mfr and P/N:	Aperto Networks PacketMAX PM400 and PM510
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Number of Mobile Units	10
Radius of Mobile or Subscriber Unit location from Fixed station(s) (specify km)	1) up to 15km radius from each BS location (all units)
	2)
	3)
	Etc)

Base Station TX Parameters

Station Number	LOW (MHz)	HIGH(MHz)	% Tolerance
1)	2496	2600	0.0002
2)	2600	2690	0.0002
3)			
Etc)			

Station Antenna Details	Type (e.g, monopole, yagi, etc.)	Gain (dB)	Beam Width (H)	Beam Width (V)	HAAT (meters)
1)	Sector antenna	16dBi	7	90	?
2)	Sector antenna	16dBi	7	120	?
3)					
Etc)					

Station Number	Modulation	Emission Designator	Bandwidth (MHz)	Power Out dBm
1)	BPSK, QPSK, 16QAM, 64QAM (adaptive)	?	10	40
2)	BPSK, QPSK, 16QAM, 64QAM (adaptive)	?	10	40
3)				
Etc)				

Mobile/Fixed CPE Station TX Parameters

Station Number	LOW (MHz)	HIGH(MHz)	% Tolerance
(1) to (5) PM400	2496	2690	Sync to BS, <219Hz
(6) to (10) PM510	2496	2690	Sync to BS, <219Hz
3)			
Etc)			

Station Antenna Details	Type (e.g, monopole, yagi, etc.)	Gain (dB)	Beam Width (H)	Beam Width (V)	HAAT (meters)
(1) to (5) PM400	Embedded directional antenna	12 dBi			
(6) to (10) PM510	Omni	6 dBi			
3)					
Etc)					

Station Number	Modulation	Emission Designator	Bandwidth (MHz)	Power Out dBm
(1) to (5) PM400	BPSK, QPSK, 16QAM, 64QAM (adaptive)	?	10 MHz	27 dBm
(6)-(10) PM510	BPSK, QPSK, 16QAM, 64QAM (adaptive)	?	10 MHz	27 dBm
Etc)				