

Date: July 3, 2002

**FEDERAL COMMUNICATIONS COMMISSION**

7435 Oakland Mills Road  
Colombia, MD 21046  
U.S.A.

**Subject: netpad RLAN Duty Cycle**

**Applicant: PSION Teklogix Inc.**  
**Product: netpad RLAN**  
**Model: netpad RLAN**  
**FCC ID: GM3WLPC24HN**

Dear Sir/Madam,

I hereby describe the duty cycle of transmitter used in netpad RLAN as follows:

"The access point sends out a beacon every 100ms.  
A netpad RLAN terminal can only transmit once (if at all) during each of these intervals.  
The maximum fragmentation limit of a client terminal is 2312 bytes. This translates to 18496 bits.  
There is a 192 bit preamble for each packet sent.  
Thus a netpad RLAN terminal can transmit a maximum of ~19kbits/100ms. At 1Mbps data rate, this will take 19ms every 100ms, translating to a max duty cycle of 19%. Duty cycle will be reduced when a higher data rate is used or when there are less data being transmitted."

Regards,



Sada Dharwarkar, P.Eng.  
Supervisor, Approvals  
PSION Teklogix Inc.