

## EMAIL on PPSD

Subject: Re: Application of the LANTECH (L8G8800003)  
Date: Sun, 01 Dec 2002 21:40:15 -0800  
From: Dennis Ward <dennis@yosemite.net>  
To: TRC - Eric <eric@trclab.com.tw>

References:

Thanks Eric

the plot appears as if the spreading sequence has not been turned on. Even with a 1 Mbit transfer rate, the direct sequence spreading sequence would spread the data over a much wider band than shown. The spreading sequence must be turned on and the modulation must be applied. The plot does not convince me that the DSSS device is operating in a normal direct sequence spread spectrum mode, regardless of the data rate. If anything it appears to be simply an FM modulated signal. Remember that in a DSSS device the modulation from the data is not the primary component. DSSS devices use a wideband direct sequence spreading code to modulate the carrier over a wide band, this is then further modulated with the data stream. Even if little or no data were transmitted, the direct sequence spreading code would produce a much wider band plot than what is shown. Please show a plot with the direct sequence spreading sequence fully engaged.

Thanks

Dennis

TRC - Eric wrote:

Dear Dennis: Thanks for your info... In order to maintain the constant SWT TIME at 100s, the RBW, VBW and SPAN should stand on some kind of ratio as we have done (RBW=3kHz and VBW=10kHz while SPAN=300kHz). The plots show unusual results as the L8G8800003 is measured in 1Mb/sec data rate as the ordinary one is measured at 11Mb/sec, it affects the bandwidth to be plotted at these testing items... FYI. Thank you!!

Eric

-----Original Message-----

From: Dennis Ward [mailto:dennis@yosemite.net]  
Sent: Sunday, December 01, 2002 7:58 AM  
To: TRC - Eric  
Subject: Re: Application of the LANTECH (L8G8800003)

Hi Eric

One last item, please note that your PPSD plots are not in accordance with the FCC approved test methods. While the plots are technically within the settings mentioned, they do not appear to be plots of what would be typical in a DSSS WLAN device, and brings into question what the device actually is. Please follow the established PPSD test method. Remember that the PPSD is the power spectral density over 1 MHz not 300 kHz. It is then best to have at least a 1MHz span.

Thanks Dennis

TRC - Eric wrote:

Dear Dennis: I have uploaded the materials about your comment of this project. Please do kindly review this and be noted that the ID should be all in BLOCK LETTER instead... Thank you!!

Eric

EMAIL on Max power

Subject: Re: Application of the LANTECH (L8G8800003)  
Date: Sun, 01 Dec 2002 21:32:11 -0800  
From: Dennis Ward <dennis@yosemite.net>  
To: TRC - Eric <eric@trclab.com.tw>

References:

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Hi Eric

I understand what you are saying, but that does not answer the question. The manufacturer must clearly state what these numbers are and how they relate to the new numbers. The attestation must state clearly that the number 34 is equal to absolutely no more than the measured value in the report (i.e. 24.12mW). This must be clearly shown. Sorry to be so picky, but the FCC will have questions on this issue so it is better answered now rather than risk a dismissal later.

Hope you understand

Thanks

Dennis

TRC - Eric wrote:

Dear Dennis: The letter states that the FIELD at the firmware (which can be accessed via the Windows) is changed from the 38 to 34, then the power is lowered (as listed in the report) in order to comply with the power threshold of the 24mW... The attestation letter is used for the declarations that the modification will be adapted to all the products entering into the mass production in the future.

Thank you!! Eric

-----Original Message-----

From: Dennis Ward [mailto:dennis@yosemite.net]  
Sent: Sunday, December 01, 2002 7:42 AM  
To: TRC - Eric  
Subject: Re: Application of the LANTECH (L8G8800003)

Hi Eric

I am in the process of reviewing your new data. Please notice that the modification letter states "The power value set in the firmware will be reduced -Field "Tx Power" at the firmware will be set from "38" to "34". Please note that I have no idea what "38" to "34" means in power. Please clarify this. Remember, power for this device MUST be lower than 24mW otherwise SAR WILL BE REQUIRED. Please confirm by that the maximum power for this device will be no greater than 24mW. This should be attested to in power, not in ambiguous terms of firmware setting levels.

I may send more requests as I review the documentation you provided.

Thanks

Dennis

TRC - Eric wrote:

Dear Dennis:I have uploaded the materials about your comment of this project.Please do kindly review this and be noted that the ID should be all in BLOCK LETTER instead...Thank you!!  
Eric