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Sent: Wednesday, October 11, 2006 11:03 AM
To: lfeudi@ustech-lab.com
Subject: Stamp

Attachments: ATT00031.html; Copy of SPEC MMT (SPP - 8520-0136-01 - C1).PDF



ATT00031.html (10 KB)
Copy of SPEC MMT (SPP - 8520-0...

First of all, the TX duty cycle is 1.167 ms out of every 3 seconds. I missed the second "1" in the email yesterday. Our message length is 583 microseconds. We transmit each message twice out of every 3 second cycle. Each message is retransmitted on a "secondary" channel which is 8 MHz higher than the initial "primary" channel. This is the same as on the MMT 2.4 GHz protocol we had tested earlier this year. All messages are alternated between the "control" channel and a random RF channel in the 2.4 GHz band.

Here's a quick example of how the Stamp might transmit.

Message 1 on control channel

Message 1 on control channel + 8 MHz

Wait ~3 seconds

Message 2 on pseudo random channel

Message 2 on pseudo random channel + 8 MHz

Wait ~3 seconds

Message 3 on control channel

Message 3 on control channel + 8 MHz

...

Once again I apologize for the confusion here.

Also, I've attached our design specification for the MMT which contains a section on the 2.4 GHz operation. This is the exact same hardware and essentially the same firmware which is involved with the Stamp. One of the senior engineers told me that this is what could be used as a theory of operations for our 2.4 GHz radio. It doesn't really have much detail, so I can go through and create another one specifically for the Stamp is necessary. Basically the Stamp is just an external transceiver to allow communication with the MMT for setup and sensor I/O purposes.

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