**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | Common modes for UWB PHY |
| Date Submitted | 6 November 2015 |
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| Re: | text for 802.15.8 draft covering the common modes for UWB PHY |
| Abstract | Text for inclusion in IEEE 802.15.8 |
| Purpose | Provision of the text to facilitate its incorporation into the draft text of the IEEE 802.15.8 standard currently under development in the 802.15 TG8. |
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**Common mode for UWB PHY**

*Notes in RED (like this one) are explanatory notes not intended to be part of the standard, which should be removed when integrating the text. This text is provided with a view to its integration into the “Common mode” clause of the 802.15.8 draft, which is clause 5.1.3.1 in the P802.15.8\_D0.15.1.doc version of the draft.*

**5.1.3.1 Common mode**

**…**

*Delete the existing text relating to UWB common mode (which is ~17 lines after the clause header):*

~~The suggested common mode at UWB band is as follows~~

*Insert the following new text:*

Table 1 presents the suggested common mode channel band options for the UWB PHY including a nominated preamble code to be used depending on the modulation mode supported. The choice of which to use depends on local regulations and the capability of the PD to support it.

**Table 1 – common modes for UWB PHY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Channel Index** | **Mandatory frequency** | **BPM-BPSK modulation mode** | **OOK modulation mode** |
| 2 | 4.0 GHz | Preamble Sequence ID = 45 | Gold sequence code i = 0 |
| 5 | 6.5 GHz |
| 8 | 8.0 GHz |

*<END>*