**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **PHY modes and TXs/RXs** | |
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| Abstract | [Description of document contents.] | |
| Purpose | [Description of what the author wants P802.15 to do with the information in the document.] | |
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# Annex X

(informative)

Table X1 shows that each PHY mode mainly supports what sorts of Tx.

Table X1 – PHY Modes / TXs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Discrete (or single) source | Surface source | 2-Dimensional / Screen | Painting |
| PHY I | | x | x |  |  |
| PHY II | | x | x |  |  |
| PHY III | | x | x |  |  |
| PHY IV | UFSOOK | x | x |  |  |
| Twinkle VPPM | x | x |  |  |
| S2-PSK | x |  |  |  |
| S2+DMS-PSK | x |  |  |  |
| Offset-VPWM | x | x |  |  |
| PHY V | RS-FSK |  | x |  |  |
| Compatible M-FSK |  | x |  |  |
| C-OOK |  | x |  |  |
| Packet PPM/PWM |  | x |  |  |
| PHY VI | 2D-sequential color code |  |  | x |  |
| VTASC |  |  | x | x |
| Kookmin Invisible code |  |  | x |  |
| Invisible Data embedded display Tx Scemes |  |  | x |  |
| PHY VII | Fraunhofer High-bandwidth PHY | x | x |  |  |
| PureLiFi Low-bandwidth PHY | x | x |  |  |

Table X2 shows that each PHY mode mainly supports what sorts of Rx.

Table X2 – PHY Modes / RXs

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Photodiode | | Image sensor | | | Other characteristics |
| Monochrome | Color | Global shutter | Rolling shutter | High-speed / ROI |
| PHY I | | x | x |  |  |  |  |
| PHY II | | x | x |  |  |  |  |
| PHY III | |  | x |  |  |  |  |
| PHY IV | UFSOOK | x | x | x |  | x |  |
| Twinkle VPPM | x | x |  |  | x |  |
| S2-PSK |  |  | x |  | x |  |
| S2+DMS-PSK |  |  | x |  | x |  |
| Offset-VPWM | x | x |  |  |  |  |
| PHY V | RS-FSK | x | x |  | x | x |  |
| Compatible M-FSK | x | x |  | x | x | low-grade camera support |
| C-OOK | x | x |  | x | x |  |
| Packet PPM/PWM | x | x |  | x | x |  |
| PHY VI | 2D-sequential color code |  |  | x |  | x |  |
| VTASC |  |  | x | x | x |  |
| Kookmin Invisible code |  |  | x | x | x |  |
| Invisible Data embedded display Tx Scemes |  |  | x | x | x |  |
| PHY VII | Fraunhofer High-bandwidth PHY | x | x |  |  |  |  |
| PureLiFi Low-bandwidth PHY | x | x |  |  |  |  |