**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **D0-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 P

(informative)

Table P1 shows that each PHY mode mainly supports what sorts of Tx.

Table P1 – PHY Modes / TXs

|  |  |  |  |
| --- | --- | --- | --- |
|  | | Single source | Multiple sources |
| PHY VII  (IoT applications)  (low velocity) | MIMO C-OOK |  | x |
| Rolling Shutter OFDM | x |  |
| MIMO-OOK |  | x |
| O-NOMA | x |  |
| PHY VIII  (V2V applications)  (high velocity) | Hybrid OFDM - OOK |  | x |
| Hybrid S2-PSK - OFDM | x |  |
| Bi-level pulse position modulation (BPPM) |  | x |
|  |  |  |

Table P2 shows that each PHY mode mainly supports what sorts of Rx.

Table P2 – PHY Modes / RXs

|  |  |  |  |
| --- | --- | --- | --- |
|  | | Image sensor | |
| Global shutter | Rolling Shutter |
| PHY VII  (IIoT application) | MIMO C-OOK |  | x |
| Rolling Shutter OFDM |  | x |
| MIMO-OOK | x |  |
| O-NOMA |  | x |
| PHY VIII  (V2V application) | Hybrid OFDM - OOK |  | x |
| Hybrid S2-PSK - OFDM | x | x |
| Bi-level pulse position modulation (BPPM) |  | x |
|  |  |  |

Another proposal is not modulation scheme/coding then it will be put in the annex.

Annex Q: Deep Learning for OCC decoder