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Dear Gentlemen,

WipLL is based on frequency shift keying modulation, in which the carrier wave is varied among a set of up to 8 discrete frequency values. Therefore, WipLL modulation meets the definition of digital modulation, ANSI C63.17, section 3.1.13.

WipLL offers the capability to select between two operating modes in terms of symbol rate. The modem can operate in either 1 Mega symbols per second (Msps) or 1.33 Msps. The operating mode is software selectable for each BSR/IDR. The differences between the modes of operation are related to the bit rate and the channel bandwidth.

The 1 Msps mode supports three levels of modulation, as presented below:

WipLL bit rate at 1 Msps

Bit rate (Mbps)	Bit/Symbol	Modulation
3	3	8-level FSK
2	2	4-level FSK
1	1	2-level FSK

The 1.33 Msps mode supports two levels of modulation according to the table below:

WipLL bit rate at 1.33 Msps

Bit rate (Mbps)	Bit/Symbol	Modulation
4	3	8-level FSK
1.33	1	2-level FSK

Sincerely yours

Zion Levi
compliance & testing engineer
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