Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: [Preamble, dimming and flicker at VPPM mode]
Date Submitted: [July, 2010]
Source: [Dae Ho Kim, Tae-Gyu Kang, Sang-Kyu Lim, Il Soon Jang, You Jin Kim] Company [ETRI],
            [Sridhar Rajagopal] Company [Samsung Electronics]
Address [138 Gajeongno, Yuseong-gu, Daejeon, 305-700]
Voice:[+82-42-860-5648], FAX: [+82-42-860-5218], E-Mail:[dhkim7256@etri.re.kr]

Re: [Response to LB50 comments]

Abstract: [This document describes about preamble, dimming and flicker at VPPM mode]
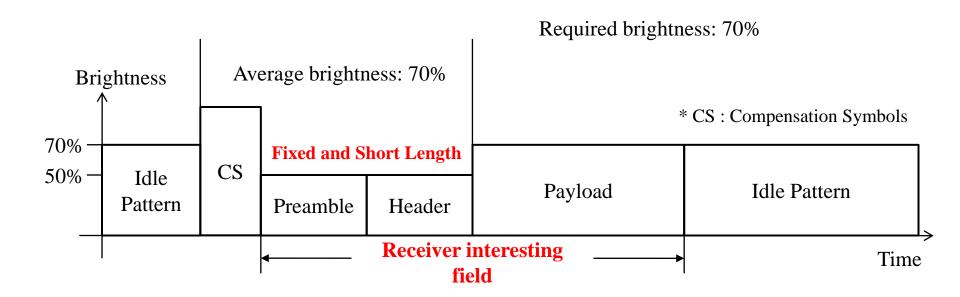
Purpose: [Propose to]

Preamble, dimming and flicker at VPPM mode

Dae Ho Kim

dhkim7256@etri.re.kr

ETRI

Dimming method

Required brightness: 70%

Average brightness: 70%

Brightness

* CS : Compensation Symbols

70%

50%

Idle Pattern	CS	**Fixed and Short Length**		Payload	Idle Pattern
		Preamble	Header		

Receiver interesting field

Time

No more information for compensation symbols is required to PHY header or any field.

Frame time calculation
for VPPM mode at PHY 1

Parameters	size	RS code	Interleave & puncture	Conv code	modulation	Clock rate	Total time
	(bits)	RS(15,2)		1	VPPM-4B6B	**400,000**	(ms)
PHY I							
Fast locking pattern (not encoded)	64	64	64	64	64		0.16
TDP (not encoded)	60	60	60	60	60		0.15
PHY header (raw)	48	360	360	360	540		1.35
						total	**1.66**