WINMATE COMMUNICATION INC.

LED Light Bar SDK
Porting Guide

Version:V1.00

Date:2015/06/30

Version	Content Modification	Date	Reviser	Note
V1.00	First Release	2014/11/19	Jack Tang	

Applicable Model

IBMCU

Design Guide

1.1 RS232 Setting

1.1.1 Baud Rate:9600。

1.1.2 Data Bits:8。

1.1.3 Parity: None。

1.1.4 Stop Bits:1。

1.2 Reading Version

NO.	Function	Length	Command	index	Checksum(*1)	Note
1	Read product number	0x04	0xA0	0x00	0x5c	Response ASCII Product Number(Fix 12 codes)
2	Red Product name	0x04	0xA0	0x01	0x5b	Response ASCII Product NAME(Fix30 codes)

*1: Checksum is 2’ s complement of sum of length and all messages.

Example

BIOS BOM	93VR3001WNDA
BIOS Name	VRD*300-0000500Hz-000-VP200-WN

PC command

0x04 0xA0 0x00 0x5C

Target Board Return

93VR3001WNDA

PC command

0x04 0xA0 0x01 0x5b

Target Board Return

VRD*300-0000500Hz-000-VP200-WN

1.3 Reading Function

	PC command					VRD				
NO.	Function	Length	Command	index	CKS(*1)	Length	index	Data	CKS(*1)	補充
1	LED_RED	0x04	0x60	0x10	0x8C	0x04	0x10	0x00-0xFF	0xEC~0xED	Default 0xFF
2	LED_GREEN	0x04	0x60	0x11	0x8B	0x04	0x11	0x00-0xFF	0xEB~0xEC	Default 0xFF
3	LED_BLUE	0x04	0x60	0x12	0x8A	0x04	0x12	0x00-0xFF	0xEA~0xEB	Default 0xFF

*1: Checksum is 2’ s complement of sum of length and all messages.

Reply Value：

ACK	3 C F1	Set Success
NSP	3 B F2	Not Success

*1: Checksum is 2’ s complement of sum of length and all messages.

1.4 Setting Function

NO.	Function	Length	Command	index	Value	Checksum(*1)	Note
1	Load Default	0x05	0x40	0x21	0x00	0x9A	
2	LED_RED	0x05	0x61	0x10	0x00-0xFF	0x8A~0x8B	
3	LED_GREEN	0x05	0x61	0x11	0x00-0xFF	0x89~0x8A	
4	LED_BLUE	0x05	0x61	0x12	0x00-0xFF	0x88~0x89	

Reply Value：

ACK	3 C F1	Set Success
NSP	3 B F2	Not Success

*1: Checksum is 2’ s complement of sum of length and all messages.