

A568 Protocol

Format RS232, Speed 9600 ,N,8,1, baudrate

Protocol developer : Fort Digital Pte Ltd

Code Description:

No	Code	No of Byte	Description
1	A5 68 32	3	header
2	01	1	ID, 1
3	7B	1	Prefix
4	00	1	Dummy
5	nn	1	Length of data, total byte from No 9~24
6	00	1	Dummy
7	00	1	Dummy
8	00	1	Dummy
9	02	1	Command Code
10	00	1	Window Number ,00
11	00	1	Effect code ,00=static
12	01	1	Alignment , place the char at center
13	00	1	Speed
14	00	1	Page to page speed byte 1
15	00	1	Page to page speed byte 2
16	14	1	Color Code, 30=yellow, 20=Green, 10=Red Msb=color code, 3=yellow, 2=Green, 1=RED LSB=Font size,0=8dots,2=16dots, 3=24dots, 4=32dots Example: RED Color 1 and 32dots, 0x14
17	00	1	Dummy
18	31	1	Data character
19	30	1	Color Code, 30=yellow, 20=Green, 10=Red Msb=color code, 3=yellow, 2=Green, 1=RED LSB=Font size,0=8dots,2=16dots, 3=24dots, 4=32dots Example: RED Color 1 and 32dots, 0x14
20	00	1	Dummy
21	32	1	Data character,
22	30	1	Color Code, 30=yellow, 20=Green, 10=Red Msb=color code, 3=yellow, 2=Green, 1=RED

			LSB=Font size,0=8dots,2=16dots, 3=24dots, 4=32dots Example: RED Color and 16dots, 0x12
23	00	1	Dummy
24	33	1	Data character
25	nL	1	Checksum Byte Low byte, 68+32+01....+(No.24) Checksum Byte high byte If Checksum : 0xA5 -> 0xAA 0x05。 0xA5 -> 0xAA 0x05。 0xAA -> 0xAA 0x0A。
26	nH	1	
27	AE	1	Footer

Example :

IF display 4 chars, RED Char , 32font size , LED display show
[2][2][4][2]

A5 68 32 01 7B 00 ; header

13 ; code for 4 chars

00 00 00 02 00 00 01 00 00 00 ; prefix

14 00 32 ; char 2 1=RED , 4=32 font

14 00 32 ; char 2

14 00 34 ; char 4

14 00 32 ; char 2

45 02 ; checksum

AE ; Footer

IF display 3 chars ,LED display show [2][4][2]

A5 68 32 01 7B 00 ; header
10 ; code for 3 chars
00 00 00 02 00 00 01 00 00 00 ; prefix
14 00 32 ; char 2
14 00 34 ; char 4
14 00 32 ; char 2
FD 01 ; checksum
AE ; Footer

IF display 2 chars , LED display show [4][2]

A5 68 32 01 7B 00 ; header
0D ; code for 2 chars
00 00 00 02 00 00 01 00 00 00 ; prefix
14 00 34 ; char 4
14 00 32 ; char2
B4 01 ; checksum
AE ; Footer

IF display 1 chars , LED display show [2]

A5 68 32 01 7B 00 ; header

0A ; code for 1 chars

00 00 00 02 00 00 01 00 00 00 ; prefix

14 00 32 ; char 2

69 01 ; checksum

AE ; Footer