

PARAGON

PARAGON ELECTRONIC CO LTD

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PG1593 data format V03

Nibble	Bit		Description	Example of Play/Pause	
1	0	1	Header	1	1
	1	1		1	1
	2	1		1	1
	3	1		1	1
2	0	0		0	0
	1	1		1	1
	2	1		1	1
	3	0		0	0
	P	0	Parity, even = 0, odd = 1	0	0
3	0	X	IR Remote Key Code	0	0
	1	X		0	1
	2	X		0	0
	3	X		0	0
4	0	X	IR Remote Key Code	1	1
	1	X		0	0
	2	X		1	1
	3	X		0	0
	P	X	Parity, even = 0, odd = 1	0	1
5	0	X	CRC (Nibble 6 & 5)	0	1
	1	X		0	1
	2	X		1	1
	3	X		1	1
6	0	X		0	0
	1	X		1	0
	2	X		1	0
	3	X		0	1
	P	X	Parity, even = 0, odd = 1	0	1

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For one key on pressed, there are 23 bits pre-amble + 27 bits data. For Play/Pause, volume + & -, FF & REW as example.
The data is as below:

Play/Pause:

11111111111111111111 111101100 000010100 001101100

or

11111111111111111111 111101100 010010101 111100011

volume +:

11111111111111111111 111101100 000011000 001001000

or

11111111111111111111 111101100 010011001 111000111

volume -:

11111111111111111111 111101100 000000010 000001111

or

11111111111111111111 111101100 010000011 110000000

FF:

11111111111111111111 111101100 000011011 001000111

or

11111111111111111111 111101100 010011010 111001000

REW:

11111111111111111111 111101100 100000001 100010011

or

11111111111111111111 111101100 110000000 010011100

The key code list as below:

Name	Key Code
SRS	0
UP	1
PLAYLIST	2
VOL+	3
TREBLE+	4
PLAY/PAUSE	5
DOWN	6
POWER	7
VOL-	8
TREBLE-	9
SELECT	A
FF	B
SHUFFLE	C
MUTE	D
BASS+	E
MENU	F
REW	10
REPEAT	11
EQ RESET	12
BASS-	13

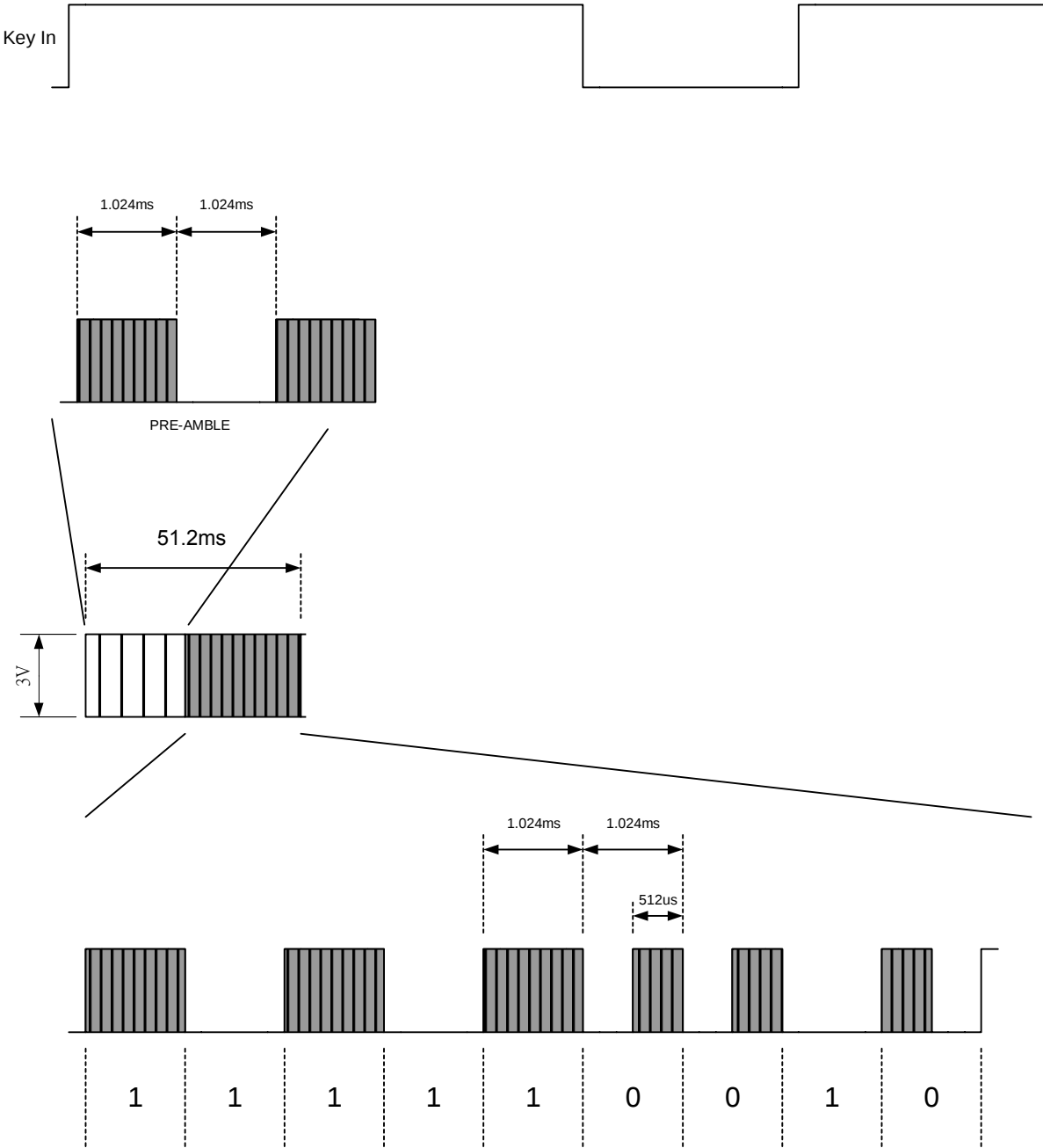
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PG1593 IR format V04



Additional information for the Timing Diagram

1. One PRE-AMBLE + one Key Code in each transmission.
2. Total 23 bits and 27 bits in PRE-AMBLE and Key Code frame respectively.
3. PRE-AMBLE and Key code frame are fixed in each transmission.
4. Worst case transmission - 16 bits high in Key Code.
5. According to page 3 diagram, some bit 1 in “high level”, but some bit 1 in “zero level”. For the PRE-AMBLE package, how many bit 1 in “high level”?

There is 23 bits in PRE-AMBLE frame which is including 12 bits high level and 11 bits low level.

