

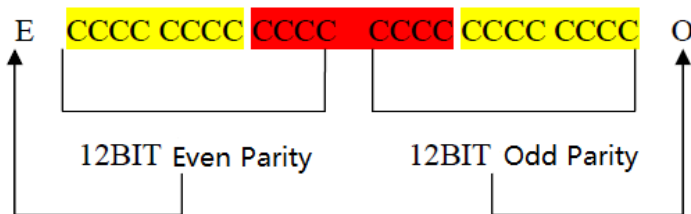


**Hikvision Access Control Wiegand Format**

# Hikvision Access Control Wiegand Format

## 1. Wiegand 26

### 1.1 Data format:



E/O: Even/Odd parity

C: Card ID Number

The above data is sent in order from left to right

The meaning of each data bit:

The 1st bit: the even parity bit of the output data 2-13 bits

Bits 2-9: the lower 8 bits of the HID code of the card

Bit 10-25: PID number of the card

The 26th bit: the odd parity bit of output data 14-25 bits

### 1.2 Card number generation rules

Wiegand26 in total 8 digits card number (Decimal)

Bits 2-9 correspond to the lower 8 digits of the card's HID code (converted to decimal, as the upper three digits of the 8-digit card number, and the length is insufficient to fill in zeros) + the 10-25 digits correspond to the PID number of the card (converted to decimal, as the lower 5 digits of the 8-digit card number, the length is not enough to fill in zeros)

For example:

0111 0100 0001 0000 0011 1101

Binary: 0111 0100

Decimal: 116

Binary: 0001 0000 0011 1101

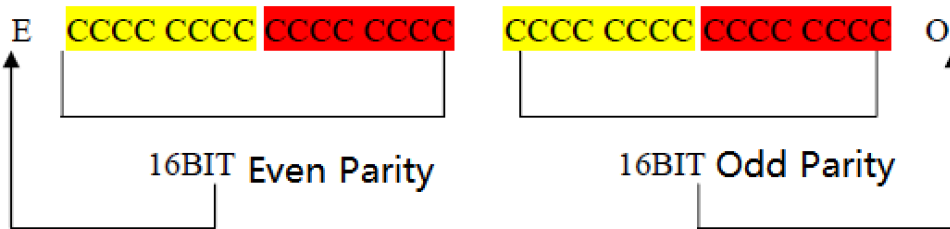
Decimal: 04157

Then we get the final 8 digit card number: 11604157

The supported maximum card number is 1111 1111 1111 1111 1111 1111, Decimal 25565535

## 2. Wiegand 34

### 2.1 Data format:



**E/O:** Even/Odd parity

**C:** Card ID Number

The above data is sent in order from left to right

The meaning of each data bit:

The 1st bit: the even parity bit of the output data 2-17 bits

Bits 2-17: the lower 8 bits of the HID code of the card

Bit 18-33: PID number of the card

The 34th bit: the odd parity bit of output data 18-33 bits

### 2.2 Card number generation rules

Take the 2-byte HID code(2-17 bit) as the high byte, and the 2-byte PID code as the low 2 bytes; after synthesizing 4 bytes, they will be uniformly converted into a decimal number (if less than 10 digits, the high digits will be filled with 0)

For example:

1100 0010 0111 0100 0001 0000 0011 1101

Binary: 1100 0010 0111 0100 0001 0000 0011 1101

Decimal: 3262386237

Then we get the final 10 digit card number: 3262386237

The supported maximum card number is 1111 1111 1111 1111 1111 1111 1111 1111, Decimal 4,294,967,295

## 3. Keypad format for Wiegand connection

When the digit key is pressed, four bits of data are transmitted every time the key is pressed, and finally ends with '#' to inform the host that the key input is completed.

**Note:** Please confirm your card reader (model with -K) and access control terminal or access controller support opening door with password through Wiegand reader connection.

KKKK

K: key value bit

Bits 1-4: the value of the key

Hexadecimal	button
0x01	1
0x02	2
0x03	3
0x04	4
0x05	5
0x06	6
0x07	7
0x08	8
0x09	9
0x0A	*
0x0B	#



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