	EXTIO2 I2C Protocol															V1 (FW Version) 2025/3/11				
REG MAP (Addr:0x45)		0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F	note		
MODE 0x00 SETTING W/R		100	IO1	102	103	104	105	106	107									Mode:0~4 ^[1]		
1	OUTPUT CTRL	100 101 102 103 104 105 106 107								0:LOW ; 1:HIGH										
0	DIGITAL INPUT	0x20 R	100	IO1	102	103	104	105	106	107									0:LOW ; 1:HIGH	
2	ANALOG INPUT-8Bits	0x30 R	100	IO1	102	103	104	105	106	107									value:0~255	
	ANALOG INPUT-12Bits	0x40 R	IO0-L	100- H	IO1-L	IO1-H	IO2-L	IO2- H	IO3-L	IO3- H	IO4-L	104- H	105-L	IO5- H	106-L	106- H	107-L	107- H	value:0~4095 ^[2]	
3	SERVO 8Bits	0x50 W/R	100	IO1	102	103	104	105	106	107									value:0~180degree	
	SERVO 16Bits	0x60 W/R	IO0-L	100- H	IO1-L	IO1-H	IO2-L	102- H	IO3-L	IO3- H	IO4-L	104- H	105-L	105- H	106-L	106- H	107-L	107- H	value:500~2500us ^[3]	
4	RGB	0x70 W/R	IO0- R	100- G	IO0-B	IO1-R	IO1-G	IO1-B	IO2- R	102- G	Ю2-В	IO3- R	IO3- G	1O3-B	IO4- R	104- G	1O4- B	105- R	R/G/B:0~255 ^[4]	
	24Bits	0x80 W/R	105- G	IO5-B	IO6- R	106- G	106-B	IO7-R	107- G	107-B									K/G/B.U~255°	
I2C ADDRESS SETTING		0xF0 W/R																Addr	value: 1~127 default:0x45	
Firmware version		0xF0 R															Versi on		Version: firmware version	

[1] 0: Input, 1: Output, 2: ADC, 3: Servo, 4: NeoPixel

[2] The address for reading a 12-bit ANALOG INPUT must be 2-byte aligned, and the number of bytes read must be 2 bytes.

(1) Correct reading examples:

Read 0x40, 2 bytes; Read 0x48, 2 bytes.

(2) Incorrect reading examples:

Read 0x40, 1 byte; Read 0x41, 2 bytes; Read 0x48, 4 bytes.

- [3] The address for writing a 16-bit SERVO must be 2-byte aligned, and the number of bytes written must be 2 bytes.
- (1) Correct writing examples:

Write 0x60, 2 bytes; Write 0x68, 2 bytes.

(2) Incorrect writing examples:

Write 0x60, 1 byte; Write 0x61, 2 bytes; Write 0x68, 4 bytes.

- [4] The address for writing a 24-bit RGB must be 3-byte aligned, and the number of bytes written must be 3 bytes.
- (1) Correct writing examples:

Write 0x70, 3 bytes; Write 0x79, 3 bytes.

(2) Incorrect writing examples:

Write 0x70, 1 byte; Write 0x71, 3 bytes; Write 0x79, 6 bytes.

[5] The control of servo motors is achieved by software-driven IO toggling on the microcontroller. If computationally intensive operations such as frequent I2C read/write operations are performed while using servo, it may cause jitter in the servo.