



MCX501EV is Evaluation Module on which MCX501 is mounted. Crystal Oscillator(16MHz) is mounted on it too. I/O signals of the IC except CLK signal are connected to the terminals of the connectors(2pcs.) whose pins are 2.54mm pitch and 30pcs. and the connectors are mounted on the rear surface of PCB.

■ Components

● MCX501		1
● Crystal Oscillator		1
	FXO-31FL-16.000MHz (KINSEKI)	1
● Connector	XG8W-3031 (OMRON)	2
● Network resistor	100K Ω \times 4	11
● Decoupling capacitor	0.1 μ F	3
● Accessory (Connector)	XG4H-3031 (OMRON)	2

■ Jumper terminal J1

IN : 16.000MHz Clock is supplied from oscillator on PCB to CLK terminal of MCX501. (when initial setting)

EX : Clock should be supplied from CN1/P13.

■ Pull-up resistor

All bidirectional signal(the signals are in described as "I/O" in the following table) and Input signals are pulled-up to +3.3K power voltage in this module by 100K Ω .

■ Connector pin assignment

CN 1				CN 2			
PIN NO.	SIGNAL	D	ICP#	PIN NO.	SIGNAL	D	ICP#
1	GND *2			1	GND *2		
2	+3.3V *2			2	+3.3V *2		
3	PP	0	35	3	D15	I/O	2
4	PM	0	36	4	D14	I/O	3
5	ECA	I	37	5	D13	I/O	4
6	ECB	I	38	6	D12	I/O	6
7	STOP2	I	39	7	D11	I/O	7
8	STOP1	I	40	8	D10	I/O	8
9	STOPO	I	42	9	D9	I/O	11
10	LMTP	I	43	10	D8	I/O	12
11	LMTM	I	44	11	D7	I/O	13
12	GND			12	D6	I/O	15
13	CLK	I	46	13	D5	I/O	16
14	GND			14	D4	I/O	17
15	INPOS	I	48	15	D3	I/O	20
16	ALARM	I	49	16	D2	I/O	21
17	P107	I/O	50	17	D1	I/O	22
18	P106	I/O	51	18	D0	I/O	24
19	P105	I/O	52	19	A3	I	25
20	P104	I/O	53	20	A2	I	26
21	P103	I/O	54	21	A1	I	27
22	P102	I/O	55	22	A0	I	28
23	P101	I/O	57	23	CSN	I	29
24	P100	I/O	58	24	WRN	I	30
25	EMGN	I	60	25	RDN	I	31
26	DCC	0	61	26	RESETN	I	32
27	SPLTP	0	64	27	H16L8	I	33
28	Not used			28	INTN	0	34
29	+3.3V *2			29	+3.3V *2		
30	GND *2			30	GND *2		

*1 : Colum D shows Signal Direction. B:Bi-directional I:Input O:Output Colum ICP shows Pin No. of MCX501 for each signal.

*2 : +5V & GND pins are connected to +3.3V inside Module PCB and GND Pattern of all connectors.

[REMARK] When connectors of accessories are soldered on to your own PCB, those connectors should be put together with the module. If each connector is soldered to the PCB without the module, the gap between the pins of the module and the connectors on the PCB may happen.