



MCX304EV is Evaluation Module on which MCX304 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(4pcs.) whose pins are 2.54mm pitch and 26pcs. and the connectors are mounted on the rear surface of PCB.

COMPONENTS

MCX304	1
Crystal Oscillator	
JXO-5S-16.000MHz(KINSEKI)	1
Connector AXL226801(MATSUSHITA)	4
Decoupling capacitor 0.1μF	3
Accessory(Connector)	
AXB126001(MATSUSHITA)	4

JUMPER TERMINAL J1

IN: 16.000MHz Clock is supplied from oscillator on PCB to CLK terminal of MCX304. (when initial setting)
EX: Clock should be supplied from CN4/P24.

UNIT : mm

CONNECTOR PIN ASSIGNMENT

C N 1

PIN NO.	SIGNAL	D	ICP
1	GND	*2	
2	+5V	*2	
3	D15/UOUT3	B	1
4	D14/UOUT2	B	2
5	D13/ZOUT3	B	3
6	D12/ZOUT2	B	4
7	D11/YOUT3	B	5
8	D10/YOUT2	B	6
9	D9 /XOUT3	B	7
10	D8 /XOUT2	B	10
11	D7	B	11
12	D6	B	12
13	D5	B	13
14	D4	B	14
15	D3	B	17
16	D2	B	18
17	D1	B	19
18	D0	B	20
19	A3	I	21
20	A2	I	22
21	A1	I	23
22	A0	I	24
23	CSN	I	25
24	WRN	I	26
25	GND		
26	GND		

C N 2

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+5V		
3	RDN	I	27
4	RESETN	I	29
5	H16L8	I	30
6	TESTN	I	31
7	INTN	O	32
8	XPP/PLS	O	33
9	XPM/DIR	O	34
10	YPP/PLS	O	35
11	YPM/DIR	O	36
12	ZPP/PLS	O	37
13	ZPM/DIR	O	38
14	UPP/PLS	O	39
15	UPM/DIR	O	42
16	XECA/PPIN	I	43
17	XECB/PMIN	I	44
18	YECA/PPIN	I	45
19	YECB/PMIN	I	46
20	ZECA/PPIN	I	47
21	ZECB/PMIN	I	48
22	UECA/PPIN	I	49
23	UECB/PMIN	I	51
24	XINPOS	I	52
25	GND		
26	GND		

C N 3

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+5V		
3	XALARM	I	53
4	XLMTM	I	54
5	XLMTM	I	55
6	XSTOP2/OUT1	B	56
7	XSTOP1	I	57
8	XSTOP0	I	58
9	YINPOS	I	59
10	YALARM	I	60
11	YLMTM	I	61
12	YLMTM	I	62
13	YSTOP2/OUT1	B	63
14	YSTOP1	I	64
15	YSTOP0	I	65
16	ZINPOS	I	68
17	ZALARM	I	69
18	ZLMTM	I	70
19	ZLMTM	I	71
20	ZSTOP2/OUT1	B	72
21	ZSTOP1	I	73
22	ZSTOP0	I	74
23	UINPOS	I	75
24	UALARM	I	77
25	GND		
26	GND		

C N 4

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+5V		
3	ULMTP	I	78
4	ULMTM	I	79
5	USTOP2/OUT1	B	80
6	USTOP1	I	81
7	USTOPO	I	82
8	XDRIVE/OUTO/DCC	O	83
9	YDRIVE/OUTO/DCC	O	84
10	ZDRIVE/OUTO/DCC	O	85
11	UDRIVE/OUTO/DCC	O	86
12	XEXPP	I	87
13	XEXPM	I	88
14	YEXPP	I	89
15	YEXPM	I	92
16	ZEXPP	I	93
17	ZEXPM	I	94
18	UEXPP	I	95
19	UEXPM	I	96
20	EMGN	I	97
21	空		
22	空		
23	GND		
24	CLK	I	99
25	GND		
26	GND		

*1: Colum D shows Signal Direction. B:Bi-directional I:Input O:Output Colum ICP shows Pin No. of MCX304 for each signal.
*2: +5V & GND pins are connected to +5V 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.