



MCX314ALEV is Evaluation Module on which MCX314AL 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 34pcs. and the connectors are mounted on the rear surface of PCB.

■ COMPONENTS

- MCX314AL 1
- Crystal Oscillator  
FXO-31FL-16.000MHz (KINSEKI) 1
- Connector PS-34PE-D4T1-PN1 (JAE) 4
- Decoupling capacitor 0.1μF 3
- Accessory (Connector)  
AXB134001 (MATSUSHITA) 4

■ JUMPER TERMINAL J1

IN: 16.000MHz Clock is supplied from oscillator on PCB to CLK terminal of MCX314AL. (when initial setting)

EX: Clock should be supplied from CN2/P18.

■ CONNECTOR PIN ASSIGNMENT

CN 1 \*1

PIN NO.	SIGNAL	D	ICP
1	GND	*2	
2	+3.3V	*2	
3	D15	B	1
4	D14	B	2
5	D13	B	3
6	D12	B	4
7	D11	B	5
8	D10	B	6
9	D9	B	9
10	D8	B	10
11	D7	B	11
12	D6	B	12
13	D5	B	13
14	D4	B	16
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	RDN	I	27
26	RESETN	I	28
27	EXPLSN	I	29
28	H16L8	I	30
29	TEST1N	I	31
30	BUSYN	O	32
31	INTN	O	33
32	SCLK	O	36
33	XPP/PLS	O	37
34	GND		

CN 2

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	XPM/DIR	O	38
4	YPP/PLS	O	39
5	YPM/DIR	O	40
6	ZPP/PLS	O	41
7	ZPM/DIR	O	42
8	UPP/PLS	O	43
9	UPM/DIR	O	44
10	XECA/PPIN	I	45
11	XECB/PMIN	I	46
12	YECA/PPIN	I	47
13	YECB/PMIN	I	48
14	ZECA/PPIN	I	49
15	ZECB/PMIN	I	50
16	UECA/PPIN	I	51
17	UECB/PMIN	I	52
18	CLK	I	54
19	XDRIVE	O	56
20	XOUT7/DSND	O	57
21	XOUT6/ASND	O	58
22	XOUT5/CMPP	O	59
23	XOUT4/CMPP	O	60
24	XOUT3	O	61
25	XOUT2	O	62
26	XOUT1	O	63
27	XOUT0	O	64
28	XINPOS	I	67
29	XALARM	I	68
30	XLMTM	I	69
31	XLMTM	I	70
32	XIN3	I	71
33	XIN2	I	72
34	GND		

CN 3

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	XIN1	I	73
4	XINO	I	74
5	YDRIVE	O	75
6	YOUT7/DSND	O	76
7	YOUT6/ASND	O	77
8	YOUT5/CMPP	O	78
9	YOUT4/CMPP	O	79
10	YOUT3	O	82
11	YOUT2	O	83
12	YOUT1	O	84
13	YOUT0	O	85
14	YINPOS	I	86
15	YALARM	I	87
16	YLMTM	I	88
17	YLMTM	I	89
18	YIN3	I	90
19	YIN2	I	91
20	YIN1	I	92
21	YINO	I	93
22	ZINPOS	I	94
23	ZALARM	I	95
24	ZLMTM	I	96
25	ZLMTM	I	97
26	ZIN3	I	98
27	ZIN2	I	99
28	ZIN1	I	100
29	ZINO	I	101
30	ZDRIVE	O	102
31	ZOUT7/DSND	O	103
32	ZOUT6/ASND	O	104
33	ZOUT5/CMPP	O	105
34	GND		

CN 4

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	ZOUT4/CMPP	O	106
4	ZOUT3	O	109
5	ZOUT2	O	110
6	ZOUT1	O	111
7	ZOUT0	O	112
8	UINPOS	I	113
9	UALARM	I	114
10	ULMTP	I	115
11	ULMTM	I	116
12	UIN3	I	117
13	UIN2	I	118
14	UIN1	I	119
15	UINO	I	120
16	UDRIVE	O	121
17	UOUT7/DSND	O	122
18	UOUT6/ASND	O	123
19	UOUT5/CMPP	O	124
20	UOUT4/CMPP	O	127
21	UOUT3	O	128
22	UOUT2	O	129
23	UOUT1	O	130
24	UOUT0	O	131
25	XEXPP	I	133
26	XEXPM	I	134
27	YEXPP	I	135
28	YEXPM	I	136
29	ZEXPP	I	137
30	ZEXPM	I	138
31	UEXPP	I	139
32	UEXPM	I	140
33	EMGN	I	141
34	GND		

\*1: Column D shows Signal Direction. B:Bi-directional I:Input O:Output Column ICP shows Pin No. of MCX314AL for each signal.

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

\*3: Input Terminal, TEST2N(142) of MCX314AL is open and it's not connected with any connector.

[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.