



MCX314AsEV is Evaluation Module on which MCX314As 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

- MCX314As 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 MCX314As. (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	+5V	*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	7		
10	D8	B	8		
11	D7	B	10		
12	D6	B	11		
13	D5	B	12		
14	D4	B	13		
15	D3	B	14		
16	D2	B	15		
17	D1	B	16		
18	D0	B	17		
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	TESTN	I	31		
30	BUSYN	O	32		
31	INTN	O	33		
32	SCLK	O	34		
33	XPP/PLS	O	35		
34	GND				

CN 2					
PIN NO.	SIGNAL	D	ICP		
1	GND				
2	+5V				
3	XPM/DIR	O	36		
4	YPP/PLS	O	38		
5	YPM/DIR	O	39		
6	ZPP/PLS	O	40		
7	ZPM/DIR	O	41		
8	UPP/PLS	O	42		
9	UPM/DIR	O	43		
10	XECA/PPIN	I	44		
11	XECB/PMIN	I	45		
12	YECA/PPIN	I	46		
13	YECB/PMIN	I	47		
14	ZECA/PPIN	I	48		
15	ZECB/PMIN	I	49		
16	UECA/PPIN	I	50		
17	UECB/PMIN	I	51		
18	CLK	I	53		
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	+5V				
3	XIN1	I	73		
4	XINO	I	74		
5	YDRIVE	O	76		
6	YOUT7/DSND	O	77		
7	YOUT6/ASND	O	78		
8	YOUT5/CMPP	O	79		
9	YOUT4/CMPP	O	80		
10	YOUT3	O	81		
11	YOUT2	O	82		
12	YOUT1	O	83		
13	YOUT0	O	84		
14	YINPOS	I	85		
15	YALARM	I	86		
16	YLMTM	I	87		
17	YLMTM	I	88		
18	YIN3	I	89		
19	YIN2	I	92		
20	YIN1	I	93		
21	YINO	I	94		
22	ZINPOS	I	95		
23	ZALARM	I	96		
24	ZLMTM	I	97		
25	ZLMTM	I	98		
26	ZIN3	I	99		
27	ZIN2	I	100		
28	ZIN1	I	101		
29	ZINO	I	102		
30	ZDRIVE	O	104		
31	ZOUT7/DSND	O	105		
32	ZOUT6/ASND	O	106		
33	ZOUT5/CMPP	O	107		
34	GND				

CN 4					
PIN NO.	SIGNAL	D	ICP		
1	GND				
2	+5V				
3	ZOUT4/CMPP	O	108		
4	ZOUT3	O	110		
5	ZOUT2	O	111		
6	ZOUT1	O	112		
7	ZOUT0	O	113		
8	UINPOS	I	114		
9	UALARM	I	115		
10	ULMTP	I	116		
11	ULMTM	I	117		
12	UIN3	I	118		
13	UIN2	I	119		
14	UIN1	I	120		
15	UINO	I	121		
16	UDRIVE	O	122		
17	UOUT7/DSND	O	123		
18	UOUT6/ASND	O	124		
19	UOUT5/CMPP	O	125		
20	UOUT4/CMPP	O	128		
21	UOUT3	O	129		
22	UOUT2	O	130		
23	UOUT1	O	131		
24	UOUT0	O	132		
25	XEXPP	I	134		
26	XEXPM	I	135		
27	YEXPP	I	136		
28	YEXPM	I	137		
29	ZEXPP	I	138		
30	ZEXPM	I	139		
31	UEXPP	I	140		
32	UEXPM	I	141		
33	EMGN	I	142		
34	GND				

\*1: Colum D shows Signal Direction. B:Bi-directional I:Input O:Output Colum ICP shows Pin No. of MCX314As 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.