



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 1  
JX0-5S-16.000MHz (KINSEKI)
- Connector PS-34PE-D4T1-PN1 (JAE) 4
- Decoupling capacitor 0.1μF 3
- Accessory (Connector) 4  
HIF3H-34DA-2.54DSA(71) (HIROSE)

■ 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					CN 2					CN 3					CN 4				
PIN NO.	SIGNAL	D	ICP	*	PIN NO.	SIGNAL	D	ICP		PIN NO.	SIGNAL	D	ICP		PIN NO.	SIGNAL	D	ICP	
1	GND	*2			1	GND				1	GND				1	GND			
2	+5V	*2			2	+5V				2	+5V				2	+5V			
3	D15	B	1		3	XPM/DIR	O	36		3	XIN1	I	73		3	ZOUT4/CMPP	O	108	
4	D14	B	2		4	YPP/PLS	O	38		4	XINO	I	74		4	ZOUT3	O	110	
5	D13	B	3		5	YPM/DIR	O	39		5	YDRIVE	O	76		5	ZOUT2	O	111	
6	D12	B	4		6	ZPP/PLS	O	40		6	YOUT7/DSND	O	77		6	ZOUT1	O	112	
7	D11	B	5		7	ZPM/DIR	O	41		7	YOUT6/ASND	O	78		7	ZOUT0	O	113	
8	D10	B	6		8	UPP/PLS	O	42		8	YOUT5/CMPP	O	79		8	UINPOS	I	114	
9	D9	B	7		9	UPM/DIR	O	43		9	YOUT4/CMPP	O	80		9	UALARM	I	115	
10	D8	B	8		10	XECA/PPIN	I	44		10	YOUT3	O	81		10	ULMTP	I	116	
11	D7	B	10		11	XECB/PMIN	I	45		11	YOUT2	O	82		11	ULMTM	I	117	
12	D6	B	11		12	YECA/PPIN	I	46		12	YOUT1	O	83		12	UIN3	I	118	
13	D5	B	12		13	YECB/PMIN	I	47		13	YOUT0	O	84		13	UIN2	I	119	
14	D4	B	13		14	ZECA/PPIN	I	48		14	YINPOS	I	85		14	UIN1	I	120	
15	D3	B	14		15	ZECB/PMIN	I	49		15	YALARM	I	86		15	UINO	I	121	
16	D2	B	15		16	UECA/PPIN	I	50		16	YLMTM	I	87		16	UDRIVE	O	122	
17	D1	B	16		17	UECB/PMIN	I	51		17	YLMTP	I	88		17	UOUT7/DSND	O	123	
18	D0	B	17		18	CLK	I	53		18	YIN3	I	89		18	UOUT6/ASND	O	124	
19	A3	I	21		19	XDRIVE	O	56		19	YIN2	I	92		19	UOUT5/CMPP	O	125	
20	A2	I	22		20	XOUT7/DSND	O	57		20	YIN1	I	93		20	UOUT4/CMPP	O	128	
21	A1	I	23		21	XOUT6/ASND	O	58		21	YINO	I	94		21	UOUT3	O	129	
22	A0	I	24		22	XOUT5/CMPP	O	59		22	ZINPOS	I	95		22	UOUT2	O	130	
23	CSN	I	25		23	XOUT4/CMPP	O	60		23	ZALARM	I	96		23	UOUT1	O	131	
24	WRN	I	26		24	XOUT3	O	61		24	ZLMTM	I	97		24	UOUT0	O	132	
25	RDN	I	27		25	XOUT2	O	62		25	ZLMTM	I	98		25	XEXPP	I	134	
26	RESETN	I	28		26	XOUT1	O	63		26	ZIN3	I	99		26	XEXPM	I	135	
27	EXPLSN	I	29		27	XOUT0	O	64		27	ZIN2	I	100		27	YEXPP	I	136	
28	H16L8	I	30		28	XINPOS	I	67		28	ZIN1	I	101		28	YEXPM	I	137	
29	TESTN	I	31		29	XALARM	I	68		29	ZINO	I	102		29	ZEXPP	I	138	
30	BUSYN	O	32		30	XLMTM	I	69		30	ZDRIVE	O	104		30	ZEXPM	I	139	
31	INTN	O	33		31	XLMTM	I	70		31	ZOUT7/DSND	O	105		31	UEXPP	I	140	
32	SCLK	O	34		32	XIN3	I	71		32	ZOUT6/ASND	O	106		32	UEXPM	I	141	
33	XPP/PLS	O	35		33	XIN2	I	72		33	ZOUT5/CMPP	O	107		33	EMGN	I	142	
34	GND				34	GND				34	GND				34	GND			

\* 1: Column D shows Signal Direction. B:Bi-directional I:Input O:Output Column 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.