



MCX514EV is Evaluation Module on which MCX514 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

- MCX514 1
- Crystal Oscillator 1
  - KC7050B16.000C31A00 (KINSEKI)
- Connector PS-34PE-D4T1-PN1 (JAE) 4
- Decoupling capacitor 0.1μF 5
- 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 MCX514. (when initial setting)  
 EX : Clock should be supplied from CN2/P18.

■ CONNECTOR PIN ASSIGNMENT

CN 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	7
10	D8	B	8
11	D7	B	11
12	D6	B	12
13	D5	B	13
14	D4	B	14
15	D3	B	15
16	D2	B	16
17	D1	B	17
18	D0	B	18
19	A3	I	21
20	A2	I	22
21	A1	I	23
22	A0	I	24
23	SDA	B	25
24	CSN/SCL	I	26
25	WRN	I	27
26	RDN	I	28
27	RESETN	I	29
28	EXPLSN	I	30
29	H16L8/12CRSTN	I	31
30	BUSMOD	I	32
31	INTON	O	33
32	INT1N	O	34
33	XPP	O	37
34	GND		

CN 2

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	XPM	O	38
4	YPP	O	39
5	YPM	O	40
6	ZPP	O	41
7	ZPM	O	42
8	UPP	O	43
9	UPM	O	44
10	XECA	I	45
11	XECB	I	46
12	YECA	I	47
13	YECB	I	48
14	ZECA	I	49
15	ZECB	I	50
16	UECA	I	51
17	UECB	I	52
18	CLK	I	54
19	XPI07	B	56
20	XPI06	B	57
21	XPI05	B	58
22	XPI04	B	59
23	XPI03	B	60
24	XPI02	B	61
25	XPI01	B	62
26	XPI00	B	63
27	XDCC	O	64
28	XSPLTP	O	65
29	XINPOS	I	66
30	XALARM	I	67
31	XLMTM	I	68
32	XLMTM	I	69
33	XSTOP2	I	70
34	GND		

CN 3

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	XSTOP1	I	73
4	XSTOP0	I	74
5	YPI07	B	75
6	YPI06	B	76
7	YPI05	B	77
8	YPI04	B	78
9	YPI03	B	79
10	YPI02	B	80
11	YPI01	B	81
12	YPI00	B	82
13	YDCC	O	83
14	YSPLTP	O	84
15	YINPOS	I	85
16	YALARM	I	86
17	YLMTM	I	87
18	YLMTM	I	88
19	YSTOP2	I	91
20	YSTOP1	I	92
21	YSTOP0	I	93
22	ZPI07	B	94
23	ZPI06	B	95
24	ZPI05	B	96
25	ZPI04	B	97
26	ZPI03	B	98
27	ZPI02	B	99
28	ZPI01	B	100
29	ZPI00	B	101
30	ZDCC	O	102
31	ZSPLTP	O	103
32	ZINPOS	I	104
33	ZALARM	I	105
34	GND		

CN 4

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	ZLMTM	I	106
4	ZLMTM	I	109
5	ZSTOP2	I	110
6	ZSTOP1	I	111
7	ZSTOP0	I	112
8	UPI07	B	113
9	UPI06	B	114
10	UPI05	B	115
11	UPI04	B	116
12	UPI03	B	117
13	UPI02	B	118
14	UPI01	B	119
15	UPI00	B	120
16	UDCC	O	121
17	USPLTP	O	122
18	UINPOS	I	123
19	UALARM	I	124
20	ULMTM	I	127
21	ULMTM	I	128
22	USTOP2	I	129
23	USTOP1	I	130
24	USTOP0	I	131
25	PIN7/MPLS	B	132
26	PIN6/MERR	B	133
27	PIN5/MINP	B	134
28	PIN4/MCLK	B	135
29	PIN3/MDT3	B	136
30	PIN2/MDT2	B	137
31	PIN1/MDT1	B	138
32	PINO/MDT0	B	139
33	EMGN	I	140
34	GND		

\*1 : Colum D shows Signal Direction. B:Bi-directional I:Input O:Output Colum ICP shows Pin No. of MCX514 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, TEST1(141) and TEST2(142) of MCX514 are open and they are 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.