



MCX514E V 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 (KINSEK1)
- 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					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	+3.3V	*2			2	+3.3V				2	+3.3V				2	+3.3V			
3	D15	B	1		3	XPM	O	38		3	XSTOP1	I	73		3	ZLMTM	I	106	
4	D14	B	2		4	YPP	O	39		4	XSTOP0	I	74		4	ZLMTM	I	109	
5	D13	B	3		5	YPM	O	40		5	YPI07	B	75		5	ZSTOP2	I	110	
6	D12	B	4		6	ZPP	O	41		6	YPI06	B	76		6	ZSTOP1	I	111	
7	D11	B	5		7	ZPM	O	42		7	YPI05	B	77		7	ZSTOP0	I	112	
8	D10	B	6		8	UPP	O	43		8	YPI04	B	78		8	UPI07	B	113	
9	D9	B	7		9	UPM	O	44		9	YPI03	B	79		9	UPI06	B	114	
10	D8	B	8		10	XECA	I	45		10	YPI02	B	80		10	UPI05	B	115	
11	D7	B	11		11	XECB	I	46		11	YPI01	B	81		11	UPI04	B	116	
12	D6	B	12		12	YECA	I	47		12	YPI00	B	82		12	UPI03	B	117	
13	D5	B	13		13	YECB	I	48		13	YDCC	O	83		13	UPI02	B	118	
14	D4	B	14		14	ZECA	I	49		14	YSPLTP	O	84		14	UPI01	B	119	
15	D3	B	15		15	ZECB	I	50		15	YINPOS	I	85		15	UPI00	B	120	
16	D2	B	16		16	UECA	I	51		16	YALARM	I	86		16	UDCC	O	121	
17	D1	B	17		17	UECB	I	52		17	YLMTM	I	87		17	USPLTP	O	122	
18	D0	B	18		18	CLK	I	54		18	YLMTM	I	88		18	UINPOS	I	123	
19	A3	I	21		19	XPI07	B	56		19	YSTOP2	I	91		19	UALARM	I	124	
20	A2	I	22		20	XPI06	B	57		20	YSTOP1	I	92		20	ULMTM	I	127	
21	A1	I	23		21	XPI05	B	58		21	YSTOP0	I	93		21	ULMTM	I	128	
22	A0	I	24		22	XPI04	B	59		22	ZPI07	B	94		22	USTOP2	I	129	
23	SDA	B	25		23	XPI03	B	60		23	ZPI06	B	95		23	USTOP1	I	130	
24	CSN/SCL	I	26		24	XPI02	B	61		24	ZPI05	B	96		24	USTOP0	I	131	
25	WRN	I	27		25	XPI01	B	62		25	ZPI04	B	97		25	PIN7/MPLS	B	132	
26	RDN	I	28		26	XPI00	B	63		26	ZPI03	B	98		26	PIN6/MERR	B	133	
27	RESETN	I	29		27	XDCC	O	64		27	ZPI02	B	99		27	PIN5/MINP	B	134	
28	EXPLSN	I	30		28	XSPLTP	O	65		28	ZPI01	B	100		28	PIN4/MCLK	B	135	
29	H16L8/12CRSTN	I	31		29	XINPOS	I	66		29	ZPI00	B	101		29	PIN3/MDT3	B	136	
30	BUSMOD	I	32		30	XALARM	I	67		30	ZDCC	O	102		30	PIN2/MDT2	B	137	
31	INTON	O	33		31	XLMTM	I	68		31	ZSPLTP	O	103		31	PIN1/MDT1	B	138	
32	INT1N	O	34		32	XLMTM	I	69		32	ZINPOS	I	104		32	PINO/MDT0	B	139	
33	XPP	O	37		33	XSTOP2	I	70		33	ZALARM	I	105		33	EMGN	I	140	
34	GND				34	GND				34	GND				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.