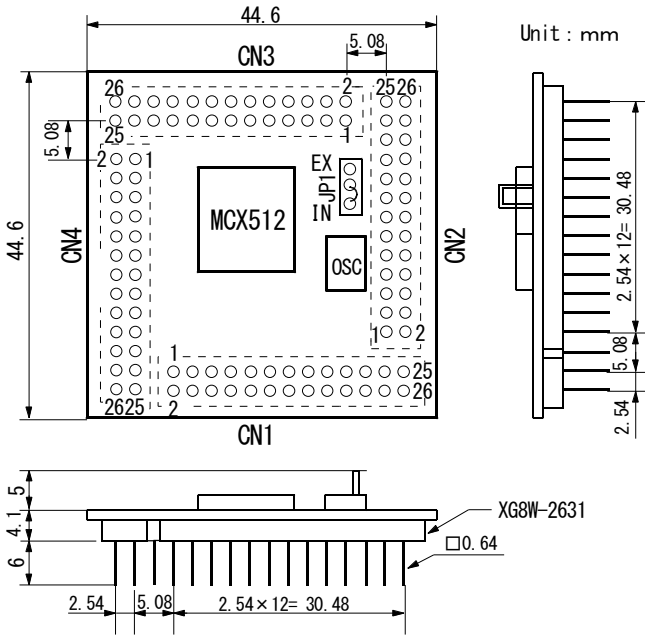

MCX512EV is Evaluation Module on which MCX512 is mounted. Crystal Oscillator(16MHz) is mounted on it too. I/O signals of the IC except CLK signal are connected to the terminals of the connectors(4pcs.) whose pins are 2.54mm pitch and 26pcs. and the connectors are mounted on the rear surface of PCB.

■ COMPONENTS

- ● MCX512 1
- ● Crystal Oscillator KC7050A16.0000C330E00 1
- ● Connector XG8W-2631 4
- ● Network resistor 100KΩ×4 2
- ● Decoupling capacitor 0.1μF 5
- ● Accessory(Connector) XG4H-2631 4

■ JUMPER TERMINAL JP1

IN : 16.000MHz Clock is supplied from oscillator on PCB to CLK terminal of MCX512. (when initial setting)

EX : Clock should be supplied from CN2/P20.

■ PULL-UP RESISTOR

A3 to A0 Signals(CN1/P19 to P22), CSN/SCL Signals(CN1/P24) and WRN,RDN,RESESTN Signals(CN2/P3 to P5) are pulled-up to +3.3V with 100KΩ in this module.

■ CONNECTOR PIN ASSIGNMENT

CN1 *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	GND		
26	GND		

CN2

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	WRN	I	27
4	RDN	I	28
5	RESETN	I	29
6	— *3		—
7	H16L8/I2CRSTN	I	31
8	BUSMOD	I	32
9	— *3		—
10	INTON	I	34
11	INT1N	I	35
12	XPP	O	36
13	XPM	O	37
14	YPP	O	38
15	YPM	O	39
16	XECA	I	40
17	XECB	I	41
18	YECA	I	42
19	YECB	I	43
20	CLK	I	45
21	XPIO13	B	47
22	XPIO12	B	48
23	XPIO11	B	49
24	XPIO10	B	50
25	GND		
26	GND		

CN3

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	XPIO9	B	51
4	XPIO8	B	52
5	XPIO7	B	53
6	XPIO6	B	54
7	XPIO5	B	55
8	XPIO4	B	56
9	XPIO3	B	57
10	XPIO2	B	60
11	XPIO1	B	61
12	XPIO0	B	62
13	XDCC	O	63
14	XSPLTP	O	64
15	XINPOS	I	65
16	XALARM	I	66
17	XLMTP	I	67
18	XLMTM	I	68
19	XSTOP2	I	69
20	XSTOP1	I	70
21	XSTOP0	I	71
22	YPIO13	B	72
23	YPIO12	B	73
24	YPIO11	B	76
25	GND		
26	GND		

CN4

PIN NO.	SIGNAL	D	ICP
1	GND		
2	+3.3V		
3	YPIO10	B	77
4	YPIO9	B	78
5	YPIO8	B	79
6	YPIO7	B	80
7	YPIO6	B	81
8	YPIO5	B	82
9	YPIO4	B	83
10	YPIO3	B	84
11	YPIO2	B	85
12	YPIO1	B	86
13	YPIO0	B	87
14	YDCC	O	90
15	YSPLTP	O	91
16	YINPOS	I	92
17	YALARM	I	93
18	YLMTP	I	94
19	YLMTM	I	95
20	YSTOP2	I	96
21	YSTOP1	I	97
22	YSTOP0	I	98
23	EMGN	I	99
24	— *3		—
25	GND		
26	GND		

＊1 : Colum D shows Signal Direction. B:Bi-directional I:Input O:Output Colum ICP shows Pin No. of MCX512 for each signal.
＊2 : +3.3V & GND pins are connected to +3.3V inside Module PCB and GND Pattern of all connectors.
＊3 : Make sure that these pins are open because these are the reserved pins.

【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.

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