

# Jewel-One Series Spec.

Nov. 2020

№	TYPE FUNCTION		J1-MX51	J1-MX6S	J1-MX6U	NOTE
			Jan. 2013 Mar. 2020	Jan. 2020 Feb. 2026	Jan. 2020 Feb. 2026	
1	CPU		Cortex-A7 600MHz single	Cortex-A9 800MHz single	Cortex-A9 800MHz dual	
2	MEMORY	SDRAM	DDR2-400 256MB/512MB 32bits	DDR3L-800 256MB/512MB/1GB 32bits	DDR3L-800 512MB/1GB/2GB 64bits	
3		EEPROM	64Kbits	64Kbits	64Kbits	
4		eMMC	—	16GB	16GB	
5	DISPLAY	LVDS	○	○	○	
6		Digital RGB 1 (JP)	○	○	○	
7		Digital RGB 2 (TW)	○	○	○	
8		Analog RGB	○	○	○	EX.CON
9	TOUCH SCREEN		○	○	○	
10	SD CARD SLOT		1ch	2ch	2ch	
11	CF CARD SLOT		○	—	—	
12	ETHERNET		10/100BASE-T	10/100/1000BASE-T	10/100/1000BASE-T	
13	OTG		○	○	○	
14	USB 1 PH		○	○	○	
15	USB 2 Type A		○	○	○	
16	USB 3 Type A		○	○	○	
17	USB 4 EX.CON		○	○	○	EX.CON
18	ANALOG IO		IN 2 / OUT 3	IN 0 / OUT 3	IN 0 / OUT 3	EX.CON
19	PWM		○	○	○	EX.CON
20	UART1		RS-232	RS-232	RS-232	EX.CON
21	UART2		2.775V	3.3V	3.3V	EX.CON
22	UART3		2.800V	3.3V	3.3V	EX.CON
23	GPIO (IN 8 / OUT 8)		2.800V	3.3V	3.3V	EX.CON
24	MIC		○	—	—	EX.CON
25	RESET IN		○	○	○	EX.CON
26	I2C		—	○	○	EX.CON
27	I2C and I/O		—	○	○	
28	SWITCH 3 poles		○	○	○	
29	LED (Red x3 / Green X1)		○	○	○	
30	RTC		○	○	○	CR2032
31	SPEAKER		○	○	○	
32	BUZZER		○	○	○	
33	CAMERA Parallel		—	○	○	OV5642
34	CAMERA Serial(MIPI CSI-2)		—	○	○	OV5640
35	CAN		—	—	—	
36	AUTO POWER OFF		—	○	○	
37	CONNECTOR POSITION		J1-MX51	J1-MX51	J1-MX51	
38	DC IN		+5V , +12V	+5V , +12V	+5V , +12V	
39	OS		CE6 / C7P	C7P / Linux	C7P / Linux	
40	SIZE (mm)		146 x 102	146 x 102	146 x 102	
41	TEMPERRATURE(Oparating)		-10°C ~ +60°C	-10°C ~ +60°C	-10°C ~ +60°C	