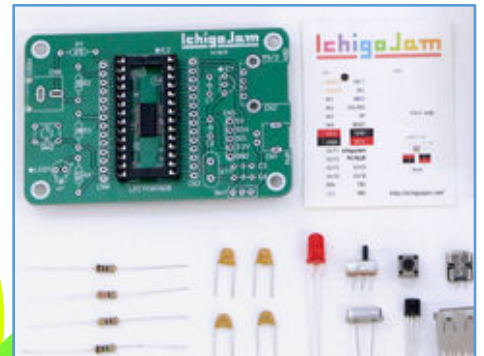


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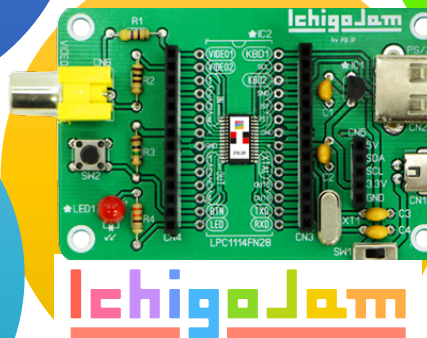
Books

- Let's start programming with IchigoJam (English)

Assemble
Parts with
Soldering

Free
materials

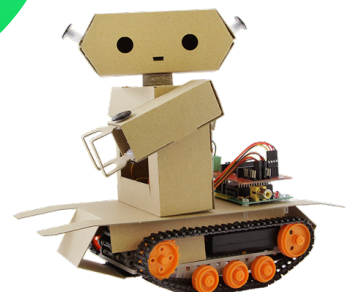
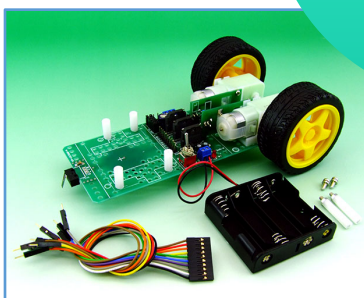
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Sound,
Light, GPIO

start
USD20
(2,000 JPY)

Electronics,
Robotics



IchigoJam is made in JAPAN
Brought it to your country by ict4e Ltd.
<http://ict4e.jp/eng/> , ichigojam@ict4e.jp

IchigoJam T (ver1.2.x) Specification

Item	Description
CPU	ARM cortex-0
Memory	4KB (1KB x 4 programming Banks)
VIDEO Out	NTSC , 288 x 216 px (32 x 24 Characters) *PAL not supported yet
Keyboard	PS/2 (USB connector type)
OS	IchigoJam BASIC 1.2.x
Programming Lang.	BASIC (with Machine language)
General Purpose I/O	UART, SOUND, I2C_SCL Digital IN x 4 (inc. Analogue INx1, I2C_SDAx1) Digital OUT x 6 (inc. Analogue OUTx4)
Power	5V (micro USB type) , Max 1W power consumption
OPTIONALs extender	WiFi extender, Motor driver extender

IchigoJam T (ver1.2.x) commands (extracted from 100)

command	description	example
LED <i>num</i>	light on the LED when n equals 1, light off when n equals 0	LED 1
BTN (<i>num</i>)	return 1 if you push the botton, else 0 (num:0(embedded button)/UP/DOWN/RIGHT/LEFT/SPACE, 0:no num)	PRINT BTN()
IF num {THEN} command1 {ELSE command2}	if num does not equals 0 execute command1, else execute command2 (you can ommit THEN / ELSE)	IF BTN() END
GOTO <i>linenum</i>	change the execution line (it's OK as using variables)	GOTO 10
BEEP { <i>num1</i> {, <i>num2</i> }	sound the BEEP, num1 is period(1-255), num2:length(1/60sec) (you can omit num1 and num2) *to connect the sounder on SOUND(EX2)-GND	BEEP 50,100
PLAY { <i>mml</i> }	play the music specified mml as MML(Music Macro Language) just PLAY to stop the music *to connect the sounder on SOUND(EX2)-GND	PLAY "\$CDE2CDE2"
IN({ <i>num</i> })	return 1 if when input terminal pin is high else 0 (num:0-11 (IN0/1/4/9 pull up, IN5-8,10-11:if switched, IN0,9:button), you can get all states when you omit num)	LET A, IN(1)
OUT <i>num1</i> {, <i>num2</i> }	output num2 to the output port specified num1 (num1:OUT1-11, you can set all states when you omit num2, if num2 equals -1 the output pot switch into the input port	OUT 1,1
ANA({ <i>num</i> })	return the value 0-1023 specified voltage of input terminal (2:IN2, 5-8:IN5-8(OUT1-4), 0,9:BTN, 0:omitted)	PRINT ANA()
PWM	output num2(0.01msec) length pulse in num3(if omit 2000) period to the output port specified num1 (num1:OUT2-5, OUT2-4 same period)	PWM 2,100