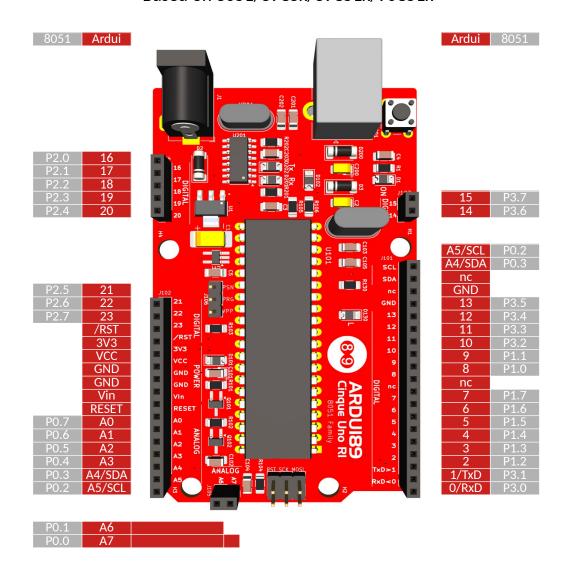
BACCIEL.COM / DATASHEET / USER MANUAL / ARDUI89 CINQUE UNO (25.03)

Ardui89 Cinque Uno

8051 Family Based on 8051/89C5x/89C51x/90C51x



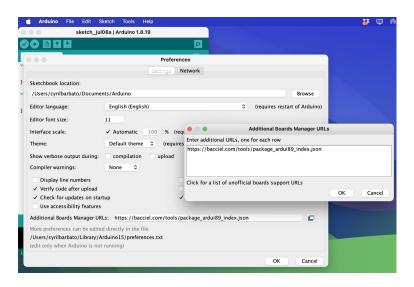
Arduino IDE®

1/ Donwload Arduino >= V1.8.19

2/ Launch Arduino

3/ In Arduino->Preferences->Additional Board Manager URLS add

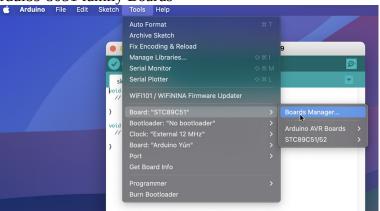
http://bacciel.com/tools/package_ardui89_index.json



4/ In Tools->Boards:...->Board Manager

search "8051"

select and install "ardui89 8051 family Boards"



5/ In Tools->Board:...

select "Board: "STC89C51" "STC89C52" "....""

6/ Demos:

Use Blink.ino in basics examples or in Ardui89_demos path:

Hello.ino

Howareyou.ino

and build and upload!

Materials

Id Référence	Empreinte	Quantité Désignation	
1 X201	Crystal_HC49-4H_Vertical Ardu89_Uno_Analog_Power_Connect	1 12MHz	
2 J102	or	1 Conn_01x16	
3 R106,R105	R_1206_3216Metric_Pad1.30x1.75m m_HandSolder C_1206_POL_3216Metric_Pad1.33x1.	2 33	0
4 C101 5 H2,H3,H4 6 J105,J103	80mm_HandSolder MountingHole_4.3mm_M4_DIN965 PinSocket_1x02_P2.54mm_Vertical	1 10µ 3 MountingHole 2 Extented Port	
	DIP-40_W15.24mm_LongPads PinHeader_1x03_P2.54mm_Vertical D_MELF	1 89C5x 1 Conn_01x03 3 SM34	
1 0 D102,D101	D_1206_3216Metric_Pad1.42x1.75m m_HandSolder	2 1N5819W	
1 1 U2 1	TSOT-23-5_HandSoldering	1 LP2985-33DBVR	
2 X101 1	Crystal_HC49-U-3PinB_Vertical	1 11.0592MHz	
3 U201 1	SOIC-16_3.9x9.9mm_P1.27mm	1 CH340G	
4 J101 R1,R202,R10	Ardu89_Uno_Digital_Connector	1 Conn_01x19	
1 1,R104,R103, 5 R130,R201 1	R_1206_3216Metric_Pad1.30x1.75m m_HandSolder	7 1k	
6 Q101,Q102 C104,C203,C	TSOT-23_HandSoldering	2 MMBTA2907	
	C_1206_3216Metric_Pad1.33x1.80m m_HandSolder C_1206_3216Metric_Pad1.33x1.80m	6 100n	
8 C202,C201 1	m_HandSolder	2 27p	
	C_2512_Pol_Tantale_Trainning	3 10μ	
0 SW101 2	SW_PUSH_6mm D_1206_3216Metric_Pad1.42x1.75m	1 SW_Push	
1 D1 2	m_HandSolder	1 LED	
2 ICSP101 2	PinHeader_2x03_P2.54mm_Vertical	1 M20-9980346	
3 J104 2	PinSocket_1x05_P2.54mm_Vertical D_1206_3216Metric_Pad1.42x1.75m	1 Extended Port	
4 D130 2 D201 5	m_HandSolder D_1206_3216Metric_Pad1.42x1.75m m_HandSolder	1 BUILTIN_LED 1 Rx LED	

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2	D_1206_3216Metric_Pad1.42x1.75m	
6 D202	m_HandSolder	1 Tx LED
2	C_1206_3216Metric_Pad1.33x1.80m	
7 C105,C103	m_HandSolder	2 22p
2	R_1206_3216Metric_Pad1.30x1.75m	
8 R102	m_HandSolder	1 4k7
2		
9 U1	SOT230P700X180-4N	1 LD1117S50TR
3		
0 H1	MountingHole_4.3mm_M4_DIN965	1 Mounting Hole 4.3mm
3	USB_B_Lumberg_2411_02_Horizonta	
1 J201	1	1 USB_TYPE_B
3		
2 J1	BarrelJack_Horizontal	1 Jack-DC

Examples



Functions Arduino / Ardui89

```
analogRead(pin) : not include, todo
digitalWrite(pin, state): since 0.0.1
digitalRead(pin) : not include, todo
delay(ms): since 0.0.1
delayMicroseconds(us): since 0.0.1
int_to_string(int) : since 0.3.10, exclusively in C for 8051
memcpy_P(dest, src, size) : since 0.3.10
pinMode: since 0.0.1
PROMEM: since 0.0.1
8051/prgspace.h: since 0.3.10
Serial89Init(): since 0.0.1 exclusively in C for 8051 architecture. Mandatory for using Serial
Example:
// Serial port init
#if defined(ARDUINO ARCH 8051)
Serial89Init(); // Serial 89 init
#endif
Serial.begin(9600); // Monitor init (F_CPU = 11.0592Mhz)
// Message
Serial.println("Hello, the world!");
Serial.begin(bauds): since 0.0.1
Serial.print(data): since 0.0.1 like printf in C, not Arduino C++
Serial.println(data): since 0.0.1 like printf in C, with \n, not Arduino C++
tone(frequency (, duration)) : since 0.0.1
```