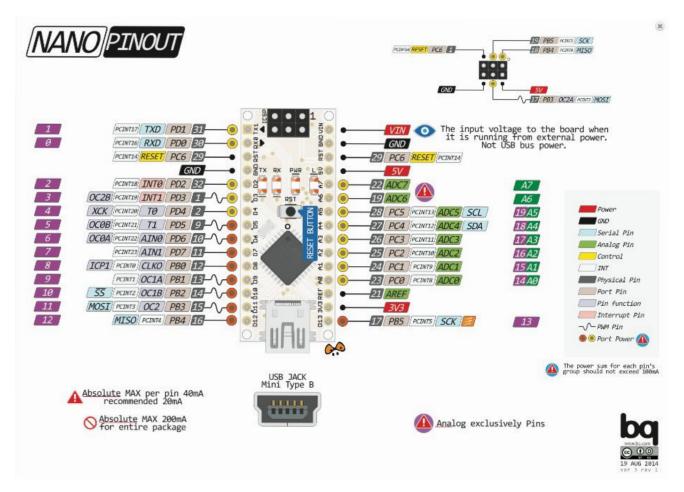
Arduino Nano (V2.3)

User Manual

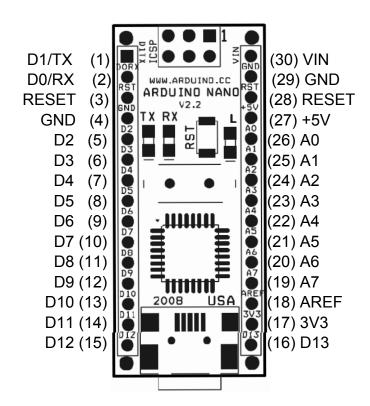


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More information:

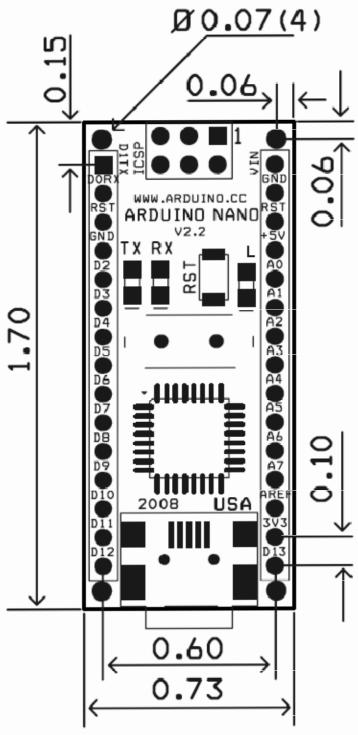
www.arduino.cc Rev. 2.4

Arduino Nano Pin Layout



Pin No.	Name	Type	Description
1-2, 5-16	D0-D13	I/O	Digital input/output port 0 to 13
3, 28	RESET	Input	Reset (active low)
4, 29	GND	PWR	Supply ground
17	3V3	Output	+3.3V output (from FTDI)
18	AREF	Input	ADC reference
19-26	A7-A0	Input	Analog input channel 0 to 7
27	+5V	Output or	+5V output (from on-board regulator) or
		Input	+5V (input from external power supply)
30	VIN	PWR	Supply voltage

Arduino Nano Mechanical Drawing



ALL DIMENTIONS ARE IN INCHES

Arduino Nano Bill of Material

Item Number	Qty.	Ref. Dest.	Description	Mfg. P/N	MFG	Vendor P/N	Vendor
			Capacitor, 0.1uF 50V 10%				
1	5	C1,C3,C4,C7,C9	Ceramic X7R 0805	C0805C104K5RACTU	Kemet	80-C0805C104K5R	Mouser
			Capacitor, 4.7uF 10V 10%				
2	3	C2,C8,C10	Tantalum Case A	T491A475K010AT	Kemet	80-T491A475K010	Mouser
			Capacitor, 18pF 50V 5%				
3	2	C5,C6	Ceramic NOP/COG 0805	C0805C180J5GACTU	Kemet	80-C0805C180J5G	Mouser
4	1	D1	Diode, Schottky 0.5A 20V	MBR0520LT1G	ONSemi	863-MBR0520LT1G	Mouser
5	1	J1,J2	Headers, 36PS 1 Row	68000-136HLF	FCI	649-68000-136HLF	Mouser
			Connector, Mini-B Recept				
6	1	J4	Rt. Angle	67503-1020	Molex	538-67503-1020	Mouser
7	1	J5	Headers, 72PS 2 Rows	67996-272HLF	FCI	649-67996-272HLF	Mouser
			LED, Super Bright RED				
		100mcd 640nm 120degree					
8 1	LD1	0805	APT2012SRCPRV	Kingbright	604-APT2012SRCPRV	Mouser	
			LED, Super Bright GREEN				
			50mcd 570nm 110degree				
9 1	1	LD2	0805	APHCM2012CGCK-F01	Kingbright	604-APHCM2012CGCK	Mouser
			LED, Super Bright ORANGE				
			160mcd 601nm 110degree				
10	1	LD3	0805	APHCM2012SECK-F01	Kingbright	04-APHCM2012SECK	Mouser
			LED, Super Bright BLUE				
4.4	4	154	80mcd 470nm 110degree	LTCT CAZOTRUT		460 4570 4 ND	D: 11
11	1	LD4	0805	LTST-C170TBKT	Lite-On Inc	160-1579-1-ND	Digikey
12	1	D1	Resistor Pack, 1K +/-5%	VC1 C 4 ID 071 VI	Vassa	VC1C4L1 OVCT ND	Disilar
12	1	R1	62.5mW 4RES SMD	YC164-JR-071KL	Yageo	YC164J-1.0KCT-ND	Digikey
13	1	R2	Resistor Pack, 680 +/-5% 62.5mW 4RES SMD	YC164-JR-07680RL	Yageo	YC164J-680CT-ND	Digikey
15		NZ	Switch, Momentary Tact	1C104-JK-07060KL	rageo	1C104J-060C1-ND	Digikey
14	1	SW1	SPST 150gf 3.0x2.5mm	B3U-1000P	Omron	SW1020CT-ND	Digikey
14		3001	IC, Microcontroller RISC	B30-10001	Omion	3W1020C1-ND	Digiticy
			16kB Flash, 0.5kB EEPROM,				
15	1	U1	23 I/O Pins	ATmega168-20AU	Atmel	556-ATMEGA168-20AU	Mouser
13		J	IC, USB to SERIAL UART 28	7.7711050100 2070	7.0.1101	550 MINIEGATOO ZOAO	14104361
16	1	U2	Pins SSOP	FT232RL	FTDI	895-FT232RL	Mouser
			IC, Voltage regulator 5V,	3-11-		333 1 1 2 2 1 1 2	
17	1	U3	500mA SOT-223	UA78M05CDCYRG3	TI	595-UA78M05CDCYRG3	Mouser
			Cystal, 16MHz +/-20ppm				
18	1	Y1	HC-49/US Low Profile	ABL-16.000MHZ-B2	Abracon	815-ABL-16-B2	Mouser

