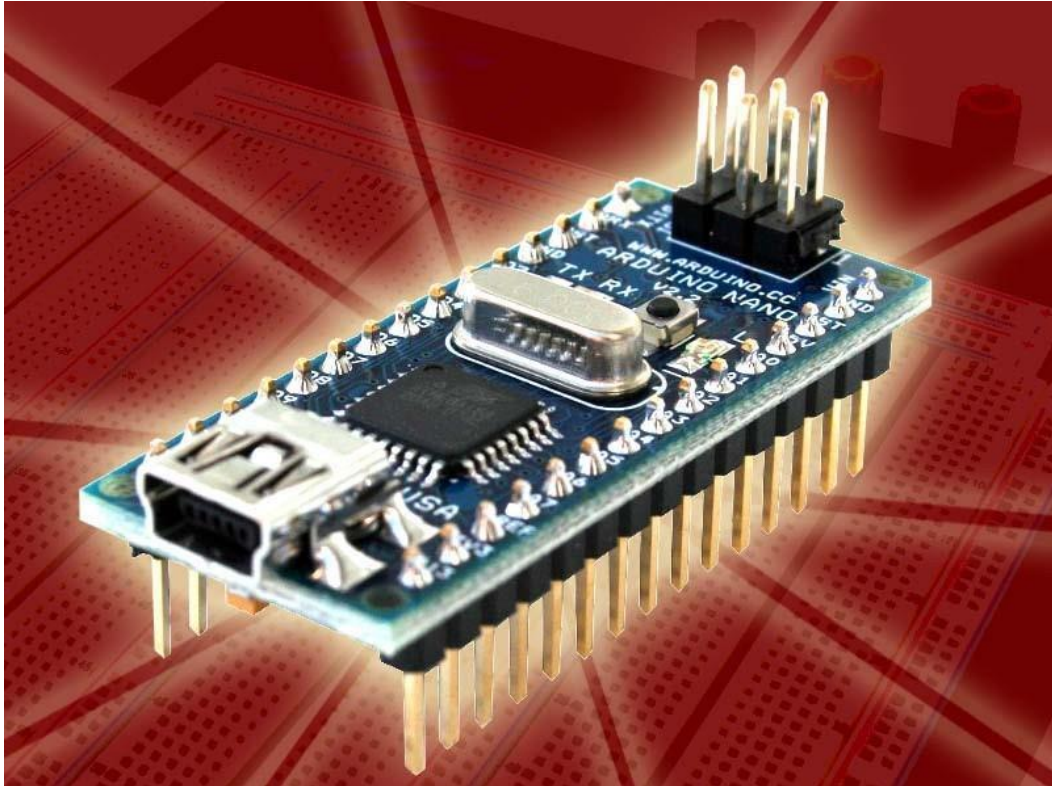


Arduino Nano (V2.3)

User Manual



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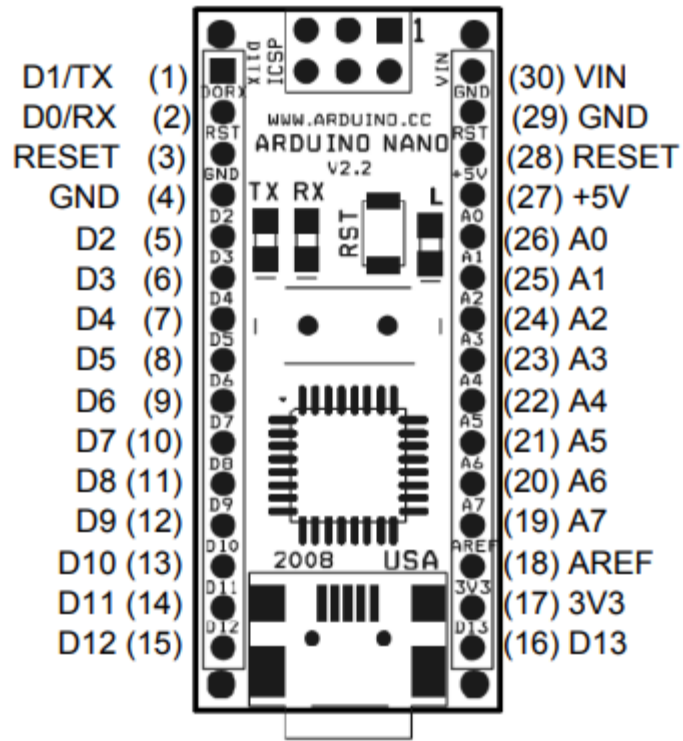
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More information:

www.arduino.cc

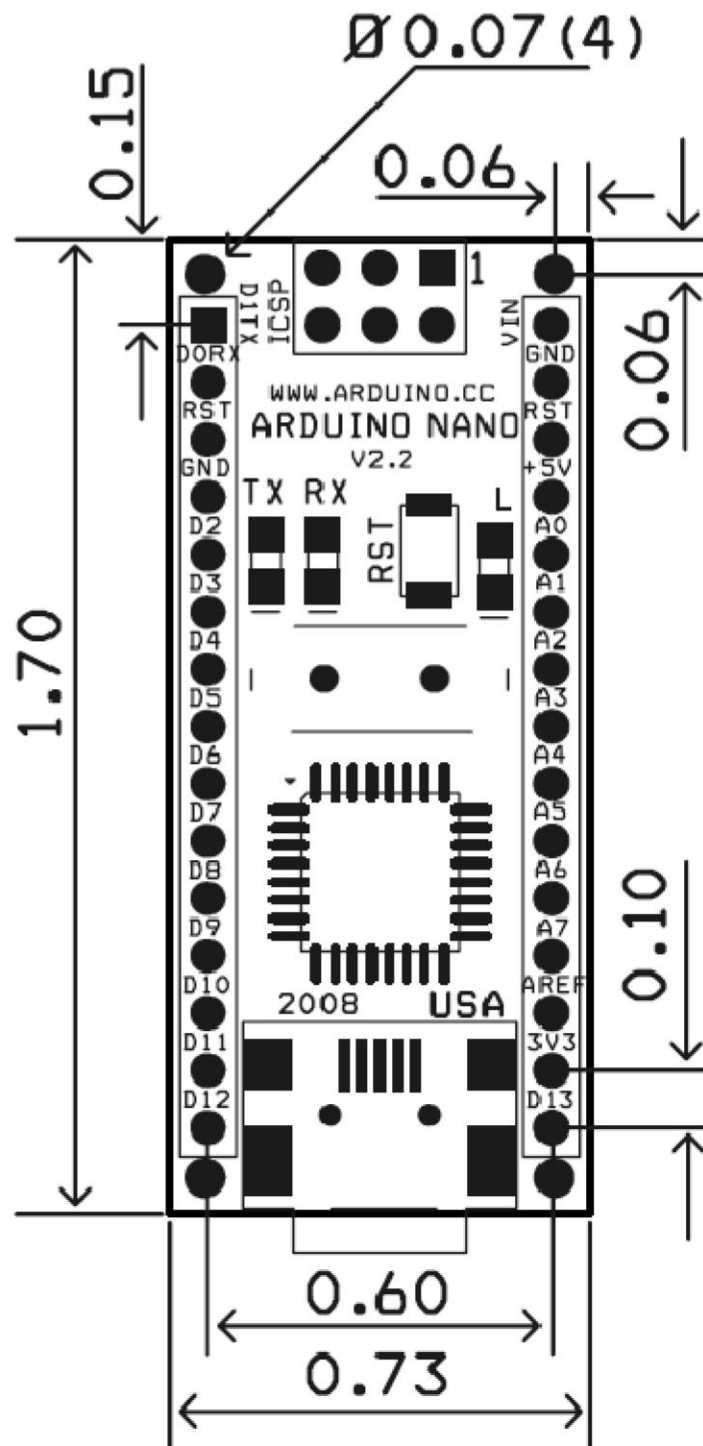
Rev. 2.3

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 Input	+5V output (from on-board regulator) or +5V (input from external power supply)
30	VIN	PWR	Supply voltage

Arduino Nano Mechanical Drawing



ALL DIMENSIONS ARE IN INCHES

Arduino Nano Bill of Material

Item Number	Qty.	Ref. Dest.	Description	Mfg. P/N	MFG!	Vendor P/N	Vendor
1	5!	C1,C3,C4,C7,C9!	Capacitor,!0.1uF!50V!10%! Ceramic!X7R!0805!	C0805C104K5RACTU!	Kemet!	80"C0805C104K5R!	Mouser
2	3!	C2,C8,C10!	Capacitor,!4.7uF!10V!10%! Tantalum!Case!A!	T491A475K010AT!	Kemet!	80"T491A475K010!	Mouser!
3	2!	C5,C6!	Capacitor,!18pF!50V!5%! Ceramic!NOP/COG!0805!	C0805C180J5GACTU!	Kemet!	80"C0805C180J5G!	Mouser!
4	1!	D1!	Diode,!Schottky!0.5A!20V!	MBR0520LT1G!	ON Semi!	863"MBR0520LT1G!	Mouser!
5	1!	J1,J2!	Headers,!36PS!1!Row!	68000"136HLF!	FCI!	649"68000"136HLF!	Mouser!
6	1!	J4!	Connector,!Mini"BIRecept! Rt.!Angle!	67503"1020!	Molex!	538"67503"1020!	Mouser!
7	1!	J5!	Headers,!72PS!2!Rows!	67996"272HLF!	FCI!	649"67996"272HLF!	Mouser!
8	1!	LD1!	LED,!Super!Bright!RED! 100mcd!640nm!120degree! 0805!	APT2012SRCPRV!	Kingbright!	604"APT2012SRCPRV!	Mouser!
9	1!	LD2!	LED,!Super!Bright!GREEN! 50mcd!570nm!110degree! 0805!	APHCM2012CGCK"F01!	Kingbright!	604"APHCM2012CGCK!	Mouser!
10	1!	LD3!	LED,!Super!Bright!ORANGE! 160mcd!601nm!110degree! 0805!	APHCM2012SECK"F01!	Kingbright!	04"APHCM2012SECK!	Mouser!
11	1!	LD4!	LED,!Super!Bright!BLUE! 80mcd!470nm!110degree! 0805!	LTST"C170TBKT!	Lite"On!Inc!	160"1579"1"ND!	Digikey!
12	1!	R1!	Resistor!Pack,!1K!+/"5%! 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!
14	1!	SW1!	Switch,!Momentary!Tact! SPST!150gf!3.0x2.5mm!	B3U"1000P!	Omron!	SW1020CT"ND!	Digikey!
15!	1!	U1!	IC,!Microcontroller!RISC! 16kB!Flash,!0.5kB!EEPROM,! 23!I/O!Pins!	ATmega168"20AU!	Atmel!	556"ATMEGA168"20AU!	Mouser!
16!	1!	U2!	IC,!USB!to!SERIAL!UART!28! Pins!SSOP!	FT232RL!	FTDI!	895"FT232RL!	Mouser!
17!	1!	U3!	IC,!Voltage!regulator!5V,! 500mA!SOT"223!	UA78M05CDCYRG3!	TI!	595"UA78M05CDCYRG3!	Mouser!
18!	1!	Y1!	Cystal,!16MHz!+/"20ppm! HC"49/US!Low!Profile!	ABL"16.000MHZ"B2!	Abracon!	815"ABL"16"B2!	Mouser!