



ARDUINO ASX 00037 Nano Screw Terminal Adapter User Guide

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ARDUINO ASX 00037 Nano Screw Terminal Adapter



Description

Arduino® Nano Screw Terminal Adapter is a quick, secure and solderless solution for your next Nano project. Easily connect external connections to the screw terminals and use the onboard prototyping area to evaluate ideas and solutions. Easily switch between the various Nano family boards without soldering, while leaving the rest of your project intact.

Target areas: Maker, Nano projects, Prototyping,

Features

- Screw connectors
 - 30 screw connectors exposing all I/O pins from your Nano board
 - 2 screw connectors providing additional ground connections
 - Silk is labeled for quick and easy reference
- Through-hole
 - 9x8 through-hole prototyping area
- Nano socket
 - Low profile connector for high mechanical stability
 - All pins are accessible via standard breadboard holes
- Mounting Holes
 - 4x 3.2mm \varnothing holes
 - Easy integration into your own projects

The Adapter

As it turned out that Arduino users have a need of a quick and easy way to securely build projects as well as adding small circuits for extra control, the Nano Screw Terminal Adapter was developed to assist in building such robust projects, without the need of soldering.

Compatible boards

Product name	SKU	Min voltage	Max voltage
Arduino® Nano 33 IoT	ABX00027/ABX00032	5 V	18 V
Arduino® Nano 33 BLE Sense	ABX00031/ABX00035	5 V	18 V
Arduino® Nano BLE	ABX00030/ABX00028	5 V	18 V
Arduino® Nano Every	ABX00033/ABX00028	5 V	18 V
Arduino® Nano RP2040 connect	ABX00052/ABX00053	5 V	18 V
Arduino® Nano Every	ABX00033/ABX00028	7 V	18 V
Arduino® Nano	A000005	7 V	12 V
Note! Please turn to each board's datasheet for further information about power and their capacity.			

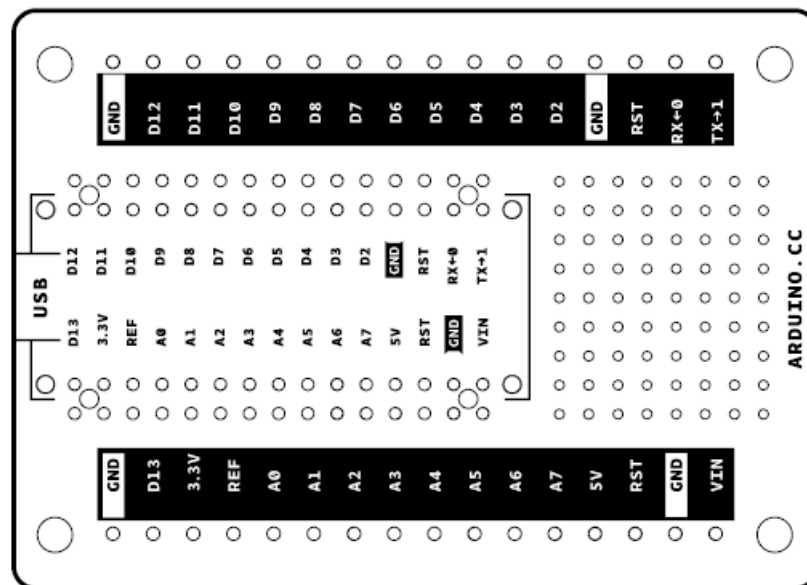
Application Examples

- **Motor Driver Design:** Evaluate motor drivers and other smaller circuits on the prototyping area
- **External debugging:** All the standard Nano pins are accessible via both breadboard-compatible pin headers as well as the screw terminals. This allows for direct probing of signals via a multimeter or oscilloscope while the device is under operation.
- **Rapid solution development:** Quickly connect to external circuitry with pin headers or screw terminals to evaluate new ideas quickly. Rapidly prototype circuits and evaluate various Nano boards to choose the best option for your application.

Functional Overview

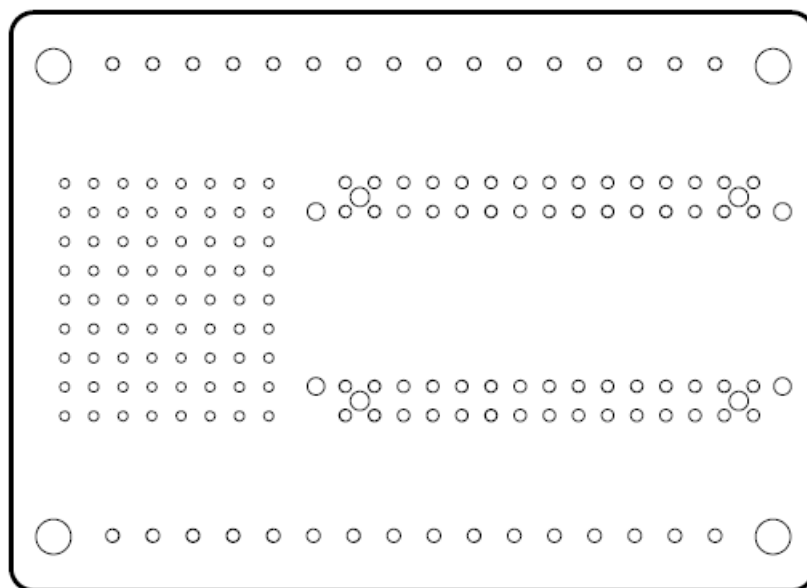
Board Topology

Top



Board topology Top

Ref.	Description	Ref.	Description
J17	HLE-115-02-F-DV-Footprint-2	J19	HLE-115-02-F-DV-Footprint-2
J18	CONNECTOR MORS.CS16v	J20	CONNECTOR MORS.CS 16v



Board topology bottom

Headers

- The board exposes two 15 pin connectors which can either be assembled with pin headers or soldered through castellated vias.

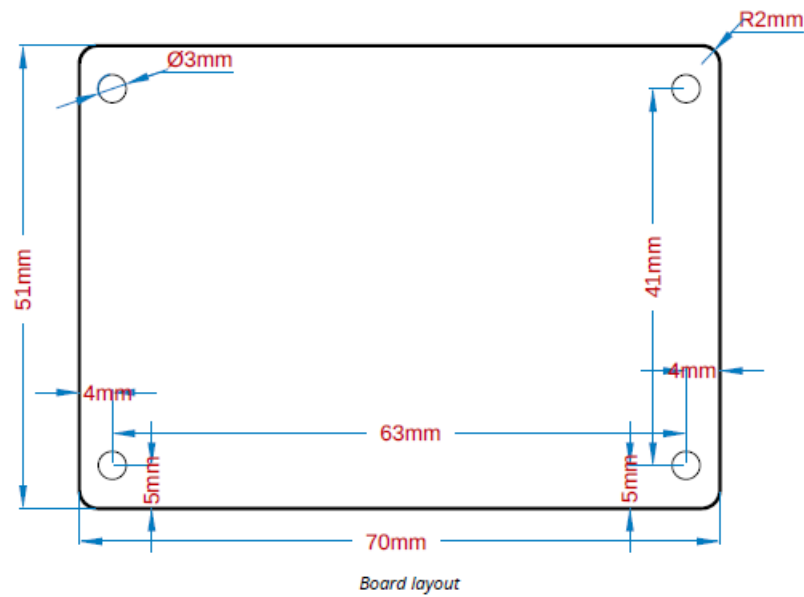
Connector J17

Pi n	Function	Type	Description
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1	D13/SCK	Digital	GPIO
2	+3V3	Power Out	
3	AREF	Analog	Analog Reference; can be used as GPIO
4	A0/DAC0	Analog	ADC in/DAC out; can be used as GPIO
5	A1	Analog	ADC in; can be used as GPIO
6	A2	Analog	ADC in; can be used as GPIO
7	A3	Analog	ADC in; can be used as GPIO
8	A4/SDA	Analog	ADC in; I2C SDA; Can be used as GPIO (1)
9	A5/SCL	Analog	ADC in; I2C SCL; Can be used as GPIO (1)
10	A6	Analog	ADC in; can be used as GPIO
11	A7	Analog	ADC in; can be used as GPIO
12	VUSB	Power In/Output	Normally NC; can be connected to VUSB pin of the USB connector by shorting a jumper
13	RST	Digital In	Active low reset input (duplicate of pin 18)
14	GND	Power	Power Ground
15	VIN	Power In	Vin Power input
16	TX	Digital	USART TX; can be used as GPIO
17	RX	Digital	USART RX; can be used as GPIO
18	RST	Digital	Active low reset input (duplicate of pin 13)
19	GND	Power	Power Ground
20	D2	Digital	GPIO
21	D3	Digital	GPIO
22	D4	Digital	GPIO
23	D5	Digital	GPIO
24	D6	Digital	GPIO
25	D7	Digital	GPIO
26	D8	Digital	GPIO
27	D9	Digital	GPIO
28	D10	Digital	GPIO
29	D11/MOSI	Digital	SPI MOSI; can be used as GPIO
30	D12/MISO	Digital	SPI MISO; can be used as GPIO

Mechanical Information

Board Outline and Mounting Holes



Certifications

Declaration of Conformity CE DoC (EU)

We declare under our sole responsibility that the products above are in conformity with the essential requirements of the following EU Directives and therefore qualify for free movement within markets comprising the European Union (EU) and European Economic Area (EEA).

Declaration of Conformity to EU RoHS & REACH 211 01/19/2021

Arduino boards are in compliance with RoHS 2 Directive 2011/65/EU of the European Parliament and RoHS 3 Directive 2015/863/EU of the Council of 4 June 2015 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Substance	Maximum limit (ppm)
Lead (Pb)	1000
Cadmium (Cd)	100
Mercury (Hg)	1000
Hexavalent Chromium (Cr6+)	1000
Poly Brominated Biphenyls (PBB)	1000
Poly Brominated Diphenyl ethers (PBDE)	1000
Bis(2-Ethylhexyl} phthalate (DEHP)	1000
Benzyl butyl phthalate (BBP)	1000
Dibutyl phthalate (DBP)	1000
Diisobutyl phthalate (DIBP)	1000

Exemptions: No exemptions are claimed.

Arduino Boards are fully compliant with the related requirements of European Union Regulation (EC) 1907 /2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). We declare none of the SVHCs (<https://echa.europa.eu/web/guest/candidate-list-table>), the Candidate List of Substances of Very High Concern for authorization currently released by ECHA, is present in all products (and also package) in quantities totaling in a concentration equal or above 0.1%. To the best of our knowledge, we also declare that our products do not contain any of the substances listed on the "Authorization List" (Annex XIV of the REACH regulations) and Substances of Very High Concern (SVHC) in any significant amounts as specified by the Annex XVII of Candidate list published by ECHA (European Chemical Agency) 1907 /2006/EC.

Conflict Minerals Declaration

As a global supplier of electronic and electrical components, Arduino is aware of our obligations with regards to laws and regulations regarding Conflict Minerals, specifically the Dodd-Frank Wall Street Reform and Consumer Protection Act, Section 1502. Arduino does not directly source or process conflict minerals such as Tin, Tantalum, Tungsten, or Gold. Conflict minerals are contained in our products in the form of solder, or as a component in metal alloys. As part of our reasonable due diligence Arduino has contacted component suppliers within our supply chain to verify their continued compliance with the regulations. Based on the information received thus far we declare that our products contain Conflict Minerals sourced from conflict-free areas.

FCC STATEMENT

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Radiation Exposure Statement

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.
3. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

User manuals for license-exempt radio apparatus shall contain the following or equivalent notice in a conspicuous location in the user manual or alternatively on the device or both. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference
2. this device must accept any interference, including interference that may cause undesired operation of the device.

IC SAR Warning

English This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Important: The operating temperature of the EUT can't exceed 85°C and shouldn't be lower than -40°C. Hereby, Arduino S.r.l. declares that this product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU. This product is allowed to be used in all EU member states.

Company Information

Company name	Arduino S.r.l
Company Address	Via Andrea Appiani 25 20900 MONZA Italy


Revision History

Date	Revision	Changes
17/06/2022	1	First release

Arduino® Nano Screw Terminal Adapter

Modified: 21/09/2022

Documents / Resources

	<p>ARDUINO ASX 00037 Nano Screw Terminal Adapter [pdf] User Guide</p> <p>ASX 00037 Nano Screw Terminal Adapter, ASX 00037, Nano Screw Terminal Adapter, Screw Terminal Adapter, Terminal Adapter, Adapter</p>
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