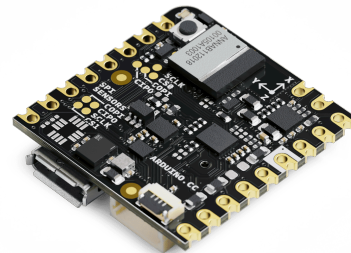


User Manual
SKU: ABX00061



Description

The **Arduino® Nicla Voice** packs machine-learning capabilities on the edge into a tiny fingerprint.

Implement always-on speech recognition with the Nicla Voice. The board integrates a dedicated Neural Decision Processor **Syntiant® NDP 120** able to run multiple AI algorithms at the same time. Leverage the built-in microphone, nRF52832 microcontroller, Bluetooth® Low Energy module, 6-axis IMU and 3-axis magnetometer to create your own wireless sensor network for machine learning applications with low power consumption capabilities.

Target areas:

noise and vibration detection, low-power speech recognition, contactless operations, gesture recognition

Features

- **ANNA-B112** Bluetooth® Module with integrated microprocessor
 - **nRF52832** System-on-chip
 - 64 MHz Arm® Cortex®-M4F microcontroller
 - 64 KB SRAM
 - 512 KB Flash
 - RAM mapped FIFOs using EasyDMA
 - 2x SPI (one is accessible via pin header)
 - 2x I2C (one is accessible via pin header)
 - 12-bit/200 ksps ADC
 - 2.400 - 2.4835 GHz Bluetooth® (5.0 via cordio stack, 4.2 via ArduinoBLE)
 - Internal antenna
 - Internal 32 MHz oscillator
 - 1.8 V Operating Voltage
- **Syntiant® NDP120** Neural Decision Processor™ (Microprocessor)
 - 1x Syntiant® Core 2™ ultra-low power deep neural network inference engine
 - 1x HiFi 3 Audio DSP
 - 1x Arm® Cortex® M0 core up to 48 MHz
 - Dedicated Low I_Q High PSRR Low-Dropout regulator (TPS7A05)
 - 1µA of typical very-low quiescent current consumption (3µA maximum)
 - Dedicated 48KB SRAM

■ Sensors

- IMU 6-axis (BMI270)
 - 16-bit 3-axis accelerometer $\pm 2/4/8/16$ g range
 - Output data rates (ODR): 0.78Hz-1.6 kHz
 - 16-bit 3-axis gyroscope $\pm 125/250/500/1000/2000$ dps range
 - Output data rates (ODR): 25Hz-6.4 kHz
 - Fast offset error compensation for accelerometer and gyroscope
 - Rapid startup time:
 - 2ms for Gyroscope with fast start mode
 - 2ms for Accelerometer
 - $<1\mu\text{s}$ of HW synchronization
 - Wide voltage supply range
 - Low Power
 - Current consumption: typ. 685 μA (full ODR and aliasing-free operation)
 - Built-in PMU
- Magnetometer 3-axis (BMM150)
 - Low voltage operation
 - Ultra-low power, current consumption 170 μA @ 10 Hz in low power preset
 - Interrupt signal generation for magnetic Low-/High-Threshold detection
 - Magnetic field range typical of $\pm 1300\mu\text{T}$ (x, y-axis), $\pm 2500\mu\text{T}$ (z-axis)
 - Magnetic field resolution of $\sim 0.3\mu\text{T}$
 - Maximum magnetic field rating at any direction $> 7\text{T}$
- High-Performance Microphone (IM69D130)
 - Frequency range 20 Hz ~ 20 kHz
 - MEMS (silicon) type
 - Dynamic range of 105dB
 - $<1\%$ total harmonic distortions up to 128 dB SPL
 - Sensitivity ($\pm 1\text{dB}$) and phase ($\pm 2^\circ$ @ 1kHz) matched
 - Flat frequency response with low-frequency roll-off at 28Hz
 - Power-optimized modes determined by PDM clock frequency
 - PDM output
 - Omnidirectional pickup pattern

- **I/O**

- Castellated pads (J1, J2, J3)
 - 1x I²C bus, also available on the ESLOV connector
 - 1x Serial Port (UART)
 - 1x SPI
 - 2x ADC
 - GPIOs configurable voltage 1.8 V/3.3 V
 - 1x Battery Input
 - Integrated battery charger and fuel gauge (BQ25120AYFPR) for 3.7V Li-Po battery
 - Power Input and Output (3.3 V, GND and VIN)
- External PDM microphone connector (Via 4-pin 0.5 mm pitch FFC cable compatible with FH33J-4S ZIF connector)

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1 The Board

1.1 Application Examples

The Arduino® Nicla Voice is your cutting edge development and deployment solution taking advantage of Syntiant® NDP120, a neural decision processor that will let you run multiple AI algorithms. Deploy predictive maintenance, gesture and speech recognition, and contactless applications in a miniaturized form factor. A 6-axis motion sensor, a magnetometer, and always-on speech recognition on the edge are at your disposal for unrestricted research and development. On-board Bluetooth® Low Energy connectivity grants interoperability with compatible Nicla, Portenta, and MKR devices for scalability. Ultra-low power consumption enables long lasting device life-time and wide range of deployment possibilities.

- **Automated Intruder Detection System:** Nicla Voice's edge capabilities enable faster identification of critical and time-sensitive events, including glass-breaking or motion sensing. Multiple voices, sound and sensor applications can run simultaneously with low power consumption, all in a tiny battery-powered size, allowing long periods of usage without intervention.
- **Predictive Maintenance:** Nicla Voice can be used to predict the wear of industrial equipment, machinery and automation devices. It can detect vibrations, noises coming from motors or coils and gather the information needed for the Neural Decision Network to align maintenance with the operational characteristics.
- **Add low-power speech recognition:** With the built-in microphone and its tiny form factor, you can easily equip an existing setup with the Nicla Voice to improve the workflow by adding speech recognition like voice commands. Moreover, an always-on speech recognition application can be developed thanks to the ultra low-power Syntiant® NDP120 Neural Decision Processor™.

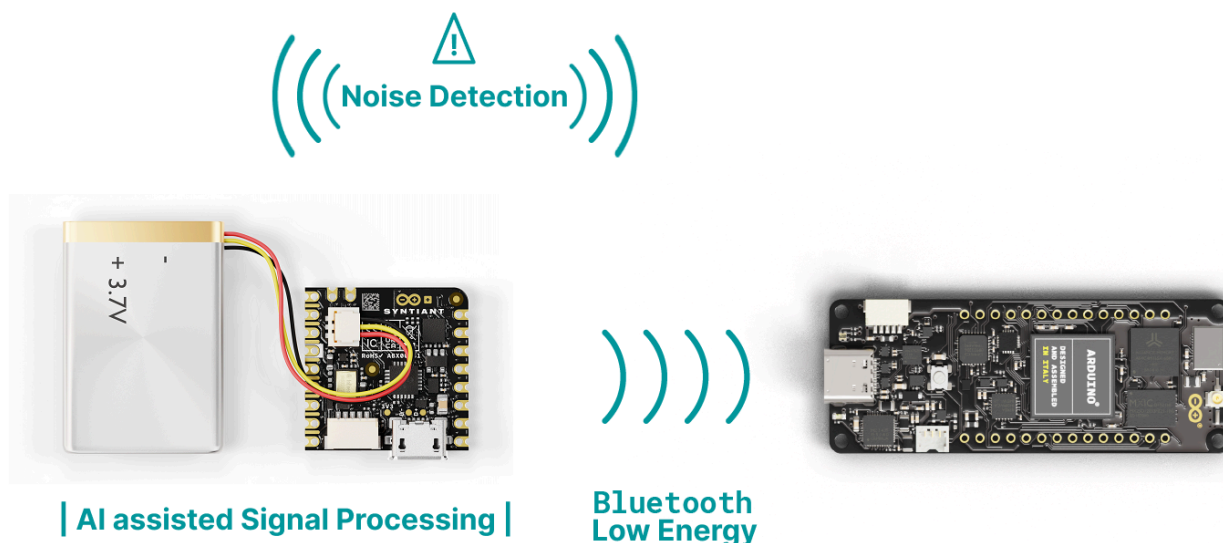
1.2 Accessories (Not Included)

- Single-cell Li-ion/Li-Po battery

1.3 Related Products

- ESLOV connector
- Arduino® Portenta H7 (SKU: ABX00042)
- Arduino® Portenta H7 Lite (SKU: ABX00045)
- Arduino® Portenta H7 Lite Connected (SKU: ABX00046)
- Arduino® Nicla Sense ME (SKU: ABX00050)

1.4 Assembly Overview



Example: Example of a typical solution for remote environmental sensing including an Arduino® Nicla Voice, Arduino® Portenta H7 and battery. Notice the orientation of the battery's cable in the board's connector.

Note: The NTC pin on the battery connector is optional. This is a feature that allows safer use and thermal shutoff of the PMIC.

2 Ratings

Symbol	Description	Min	Typ	Max	Unit
V_{IN}	Input voltage from VIN pad	3.5	5.0	5.5	V
V_{USB}	Input voltage from USB connector	4.8	5.0	5.5	V
V_{DDIO_EXT}	Level Translator Voltage	1.8	3.3	3.3	V
V_{IH}	Input high-level voltage	$0.7V_{DDIO_EXT}^1$		V_{DDIO_EXT}	V
V_{IL}	Input low-level voltage	0		$0.3V_{DDIO_EXT}^2$	V
T_{OP}	Operating Temperature	0	25	70	°C

Note : V_{DDIO_EXT} is software programmable. While the ADC inputs can accept up to 3.3 V, the maximum value is at the ANNA-B112 operating voltage.

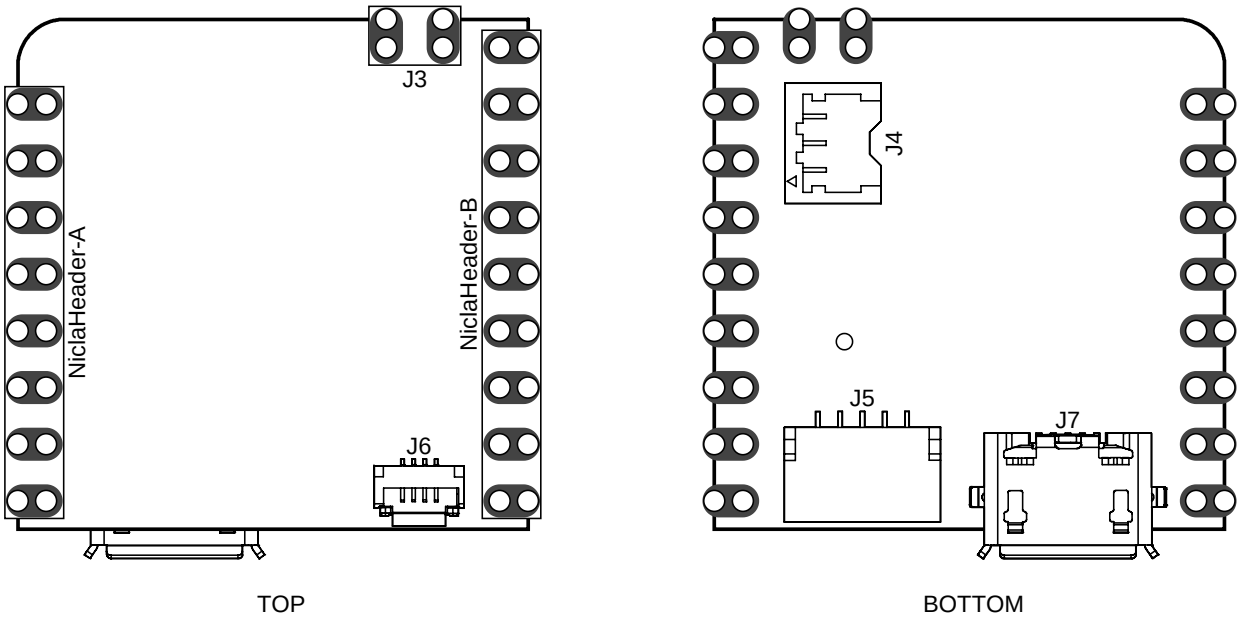
All I/O pins operate at V_{DDIO_EXT} apart from the following:

- ADC1 and ADC2 - 1.8 V
- JTAG_SAMD11 - 3.3 V
- JTAG_ANNA - 1.8 V
- JTAG_BMI - 1.8 V

- ²: If the internal V_{DDIO_EXT} is disabled by software, it is possible to supply it externally.

4.2 Board Topology

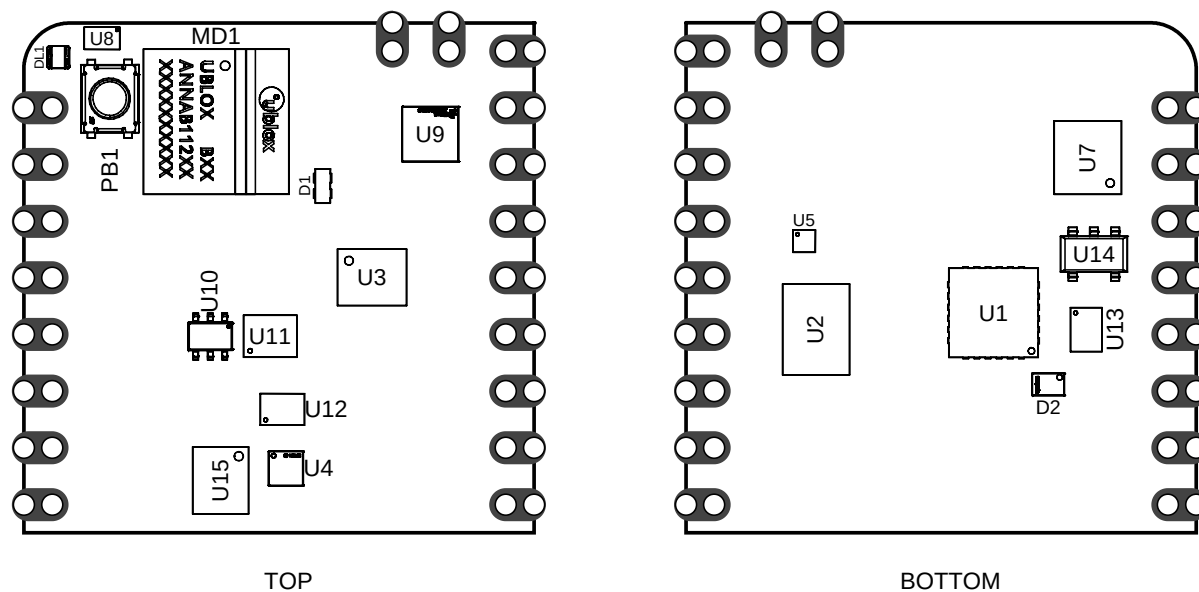
4.2.1 Connectors Topology



Nicla Voice Topology- Components

Ref.	Description	Ref.	Description
J1	Nicla Header A	J2	Nicla Header B
J3	Battery Pads	J4	Battery Connector (BM03B-ACHSS)
J5	ESLOV Connector (SM05B-SRSS)	J6	External Microphone (FH33J-4S)
J7	Micro USB-AB (ZX62-AB)		

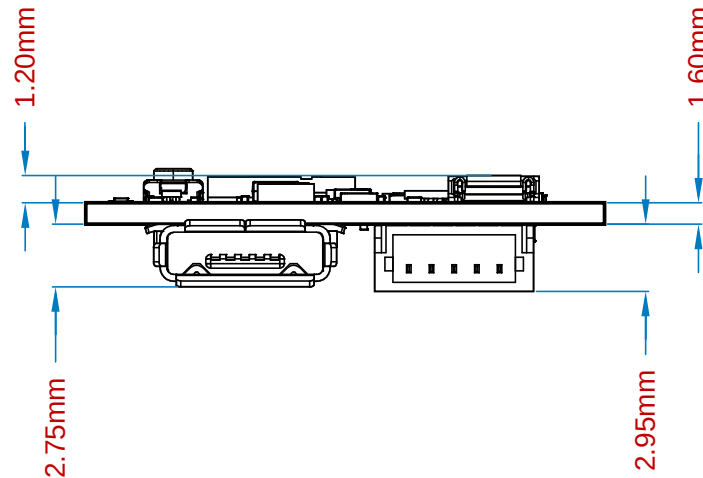
4.2.2 Components Topology



Nicla Voice Topology - components

Ref.	Description	Ref.	Description
DL1	RGB LED	MD1	u-blox ANNA-B112
PB1	Push Button	D1	Schottky Diode, PMEG4005EPK
D2	Resistor array PRTR5V0U0F	U1	Arm® Cortex®-M0 ATSAM-D11
U2	Microphone IM69D130V01	U3	Syntiant® Neural Decision Processor NDP120
U4	Magnetic Sensor BMM150	U5	LDO TPS7A0511PDQNR
U7	Flash, 128MX1. AT25QL128A	U8	RGB LED Driver IS31FL3194
U9	Battery Charger LDO Buck BQ25120	U10	Bus Transceiver 74LVC1T45DW
U11	Level Shifter TXB0108Y	U12	Level Shifter NTS0304
U13	Level Shifter NTS0304	U14	LDO regulator, 3.3 V AP2112K
U15	IMU 6 Axis Low Power BMI270		

4.2.3 Front



Nicla Voice Front View

4.3 Microcontroller

The Arduino® Nicla Voice is powered by a nRF52832 SoC within the ANNA-B112 module (MD1). The nRF52832 SoC is built around an Arm® Cortex®-M4 microcontroller with floating point unit running at 64 MHz. Sketches are stored inside the nRF52832 internal 512 KB FLASH which is shared with the bootloader. 64 KB SRAM is available to the user. The ANNA-B112 acts as the SPI host for the data logging 16MB flash (U7). While the module itself runs at 1.8 V, a level shifter can adjust the logic level between 1.8 V and 3.3 V depending on the LDO set in BQ25120 (U9). An external oscillator (Y1) provides a 32 KHz signal. The ANNA-B112 acts as the SPI host for the data logging 16MB flash (U7) and the Syntiant® NDP120 IC (U3).

4.4 Neural Decision Processor

The Arduino® Nicla Voice integrates a Neural Decision Processor™ NDP120 from Syntiant® (U3). The NDP120 leverages Syntiant Core 2™ ultra-low-power deep neural network inference engine to move larger neural networks into always-on domains with the capacity to run multiple applications simultaneously with minimal power consumption, including keyword spotting and event detection. The Syntiant® NDP120 IC (U3) also acts as the SPI host for the BMM150 3-axis magnetometer (U4) and the BMI270 6-axis IMU (U15).

4.5 IMU

The Nicla Voice provides 9-axis IMU capabilities, by the combination of the 3-axis BMM150 (U4) and 6-axis BMI270 (U15) ICs. The BMI270 includes both a three-axis gyroscope as well as a three-axis accelerometer, while the BMM150 is capable of sensing magnetic field variations in all three dimensions. The information obtained can be used for measuring raw movement parameters as well as for machine learning. Both are connected via an SPI connection to the Syntiant® NDP120 IC (U3).

4.6 RGB LED

An I2C LED driver (U8) drives the common anode RGB LED (DL1) and is capable of a maximum output of 40 mA. It is driven by the ANNA-B112 (U5) microcontroller.

4.7 Microphone

The IM69D130V01XTSA1 microphone IC (U2) includes two near identical MEMS microphones with a common membrane. The audio signal is transported over a PDM channel to the NDP120 (U3). An external microphone can be added using the J6 connector, which is also connected to the NDP120 (U3) over a separate PDM channel. Internal microphone (U2) and optional external microphone (J6) are on PDM 0 and PDM 1 channels respectively.

4.8 USB Bridge

The SAMD11 microcontroller (U1) is dedicated to act as both the USB bridge as well as the JTAG controller for the ANNA-B112. A logic level translator (U13) acts as an in between to translate 3.3 V logic to 1.8 V for the ANNA-B112. The 3.3 V voltage is generated from the USB voltage by a LDO (U14).

Legend:

- Connector (Orange)
- Main Part (Yellow)
- Internal Part (Grey)
- +3V3 (Yellow box)
- +1V8 (Pink box)
- Service Voltage (White box)

Components:

- U14 LDO** AP2112K-3.3TRG1
- U13 Level Translator** NTS0304EUKZ
- U11 Level Translator** TXB0108YZPR
- U12 Level Translator** NTS0304EUKZ
- U5 Ultra Low Noise LDO** TPS7A0511PDQNR
- U3 Syntiant** NDP120-WLBGA42
- Y1 Oscillator** 32.768Hz SIT1532AI-J4-DCC-32.768E
- U7 Flash** 128Mb AT25QL128A-UUE-T
- U2 Microphone** IM69D130V01XTSA1
- U15 IMU** 6 Axis BMI270
- U4 Magnetometer** 3 Axis BMM150
- U8 LED Driver** IS31FL3194-CLS2-TR
- U1 USB Bridge** ATSAM-D11-D14A-RUT
- U9 PMIC** BQ25120AYFPR

Connectors:

- J1-J2-J3 Headers** 2.54mm
- J4 Battery Connector** BM03B-ACHSS-GAN-TF(LF) (SN)
- J5 ESLOV Connector** SM05B-SRSS-TB(LF) (SN)
- J6 External Microphone Connector** FH33J-4S-0.5SH(99)
- J7 USB Connector** ZX62-AB-SPA(31)
- J8 USB Bridge** ATSAM-D11-D14A-RUT

Service Voltages:

- +3V3** (Yellow box)
- +1V8** (Pink box)
- V_BAT** (White box)
- V_NTC** (White box)
- V_VDDIO_EXT** (White box)
- V_VIN** (White box)
- V_VBUS** (White box)
- V_VPMID** (White box)
- V_V1** (White box)

The **Arduino® Nicla Voice** can be powered via micro USB (J7), ESLOV (J5) or VIN pin. The input power is converted into the relevant voltages via the BQ2512BAYFPR IC (U9). A Schottky diode provides reverse polarity protection to the USB and ESLOV voltages. When voltage is supplied via the micro USB, a linear 3.3 V regulator also provides power to the SAMD11 microcontroller used for programming the board as well as for JTAG and SWD. The LED driver (U8) and RGB Leds (DL1) are driven by a boost voltage of 5V. All other components operate off the 1.8 V rail regulated by a buck converter. PMID acts as an OR switch between VIN and BATT and operates the LED driver. All I/O broken out to the pins are fed through a bi-direction voltage translator running at V_{DDIO_EXT} .

Modified: 08/07/2025

5 Board Operation

5.1 Getting Started - IDE

If you want to program your Arduino® Nicla Voice while offline you need to install the Arduino® Desktop IDE **[1]**. To connect the Arduino® Nicla Voice to your computer, you'll need a micro USB cable.

5.2 Getting Started - Arduino Cloud Editor

All Arduino® boards, including this one, work out-of-the-box on the Arduino® Cloud Editor **[2]**, by just installing a simple plugin.

The Arduino® Cloud Editor is hosted online, therefore it will always be up-to-date with the latest features and support for all boards. Follow **[3]** to start coding on the browser and upload your sketches onto your board.

5.3 Getting Started - Arduino Cloud

All Arduino® IoT enabled products are supported on Arduino® Cloud which allows you to log, graph and analyze sensor data, trigger events, and automate your home or business.

5.4 Getting Started - ESLOV

The Nicla Voice board features an onboard ESLOV connector meant as an **extension** of the I2C communication bus; the board itself can act as a secondary ESLOV controller or peripheral. The ESLOV connector simplifies connecting various sensors, actuators, and other modules to the Nicla Voice without soldering or wiring.

The ESLOV connector is a small 5-pin connector with a 1.00 mm pitch; the mechanical details of the connector can be found in the connector's datasheet.

The pin layout of the Nicla Voice ESLOV connector is the following:

1. VCC_IN (5V input)
2. INT
3. SCL
4. SDA
5. GND

The manufacturer part number of the ESLOV connector is SM05B-SRSS and its matching receptacle manufacturer part number is SHR-05V-S-B.

Note: Pin 1 of the ESLOV connector of the Nicla Voice board is a **5V voltage input**, not a voltage output. This means that the Nicla Voice is intended to be used as a secondary or a peripheral board of a main board or controller with an ESLOV connector with a 5V output like, for example, the Portenta H7.

5.5 Sample Sketches

Sample sketches for the Arduino® Nicla Voice can be found either in the “Examples” menu in the Arduino® IDE or in the “Documentation” section of the Arduino® Pro website [\[4\]](#).

5.6 Online Resources

Now that you have gone through the basics of what you can do with the board you can explore the endless possibilities it provides by checking exciting projects on ProjectHub [\[5\]](#), the Arduino® Library Reference [\[6\]](#) and the online store [\[7\]](#) where you will be able to complement your board with sensors, actuators and more.

5.7 Board Recovery

All Arduino® boards have a built-in bootloader which allows flashing the board via USB. In case a sketch locks up the processor and the board is not reachable anymore via USB, it is possible to enter bootloader mode by double-tapping the reset button right after power up.

6 Connector Pinouts

All the pins on J1 and J2 (excluding fins) are referenced to the V_{DDIO_EXT} voltage which can be generated internally or supplied externally.

6.1 J1 Nicla Header A

Pin	Function	Type	Description	MKR Compatibility
1	LPIIO0_EXT	Digital	Low Power IO Pin 0	A6
2	NC	N/A	N/A	A5
3	CS	Digital	SPI Cable Select	A4
4	COPI	Digital	SPI Controller Out / Peripheral In	A3
5	CIPO	Digital	SPI Controller In / Peripheral Out	A2
6	SCLK	Digital	SPI Clock	A1
7	ADC2	Analog	Analog Input 2	A0
8	ADC1	Analog	Analog Input 1	AREF

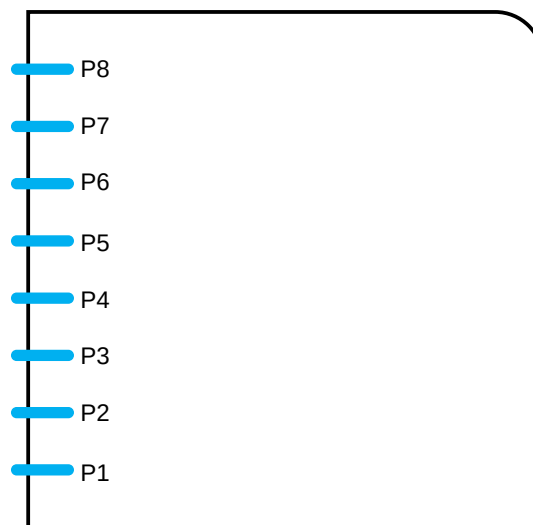
6.2 J2 Nicla Header B

Pin	Function	Type	Description	MKR Compatibility
1	SDA	Digital	I2C Data Line	SDA
2	SCL	Digital	I2C Clock	SCL
3	LPIO1_EXT	Digital	Low Power IO Pin 1	RX
4	LPIO2_EXT	Digital	Low Power IO Pin 2	TX
5	LPIO3_EXT	Digital	Low Power IO Pin 3	RESET
6	GND	Power	Ground	GND
7	VDDIO_EXT	Digital	Logic Level Reference	3.3 V
8	N/C	N/A	N/A	VIN
9	VIN	Digital	Input Voltage	5V

Note: For further information on how Low Power I/Os work, check Nicla Family Form Factor documentation.

6.3 J2 Fins

Between the main pins, there are smaller contacts (fins) that provide access to debugging capabilities. These test points can easily be accessed by inserting the board in a double row 1.27 mm/50 mil pitch male header.



BOTTOM FINS

Nicla Family Bottom Fins

Pin	Function	Type	Description
P1	BMI_SWDIO	Digital	BMI270 JTAG Serial Wire Debug Data
P2	BMI_SWDCLK	Digital	BMI270 JTAG Serial Wire Debug Clock
P3	ANNA_SWDIO	Digital	ANNA JTAG Serial Wire Debug Data
P4	ANNA_SWDCLK	Digital	ANNA JTAG Serial Wire Debug Clock
P5	RESET	Digital	Reset Pin
P6	SAMD11_SWDIO	Digital	SAMD11 JTAG Serial Wire Debug Data
P7	+1.8 V	Power	+1.8 V Voltage Rail

Pin	Function	Type	Description
P8	SAMD11_SWCLK	Digital	SAMD11 JTAG Serial Wire Debug Clock

Note: All JTAG logic levels operate at 1.8 V apart from the SAMD11 pins (P6 and P8) which are 3.3 V. All these JTAG pins are 1.8 V only and don't scale with VDDIO.

6.4 J3 Battery Pads

Pin	Function	Type	Description
1	VBAT	Power	Battery input
2	NTC	Analog	NTC Thermistor

6.5 J4 Battery Connector

Pin	Function	Type	Description
1	VBAT	Power	Battery input
2	NTC	Analog	NTC Thermistor
3	GND	Power	Ground

6.6 J5 ESLOV

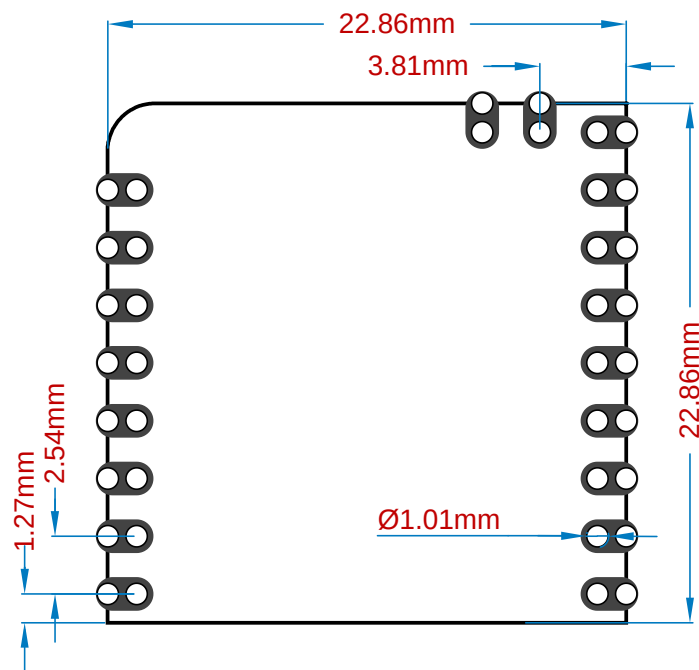
Pin	Function	Type	Description
1	5V	Power	5V Power Rail
2	INT	Digital	Digital IO
3	SCL	Digital	I2C Clock Line
4	SDA	Digital	I2C Data Line
5	GND	Power	Ground

6.7 J6 External Microphone

Pin	Function	Type	Description
1	1.8 V_MIC	Power	1.8 V Power Rail
2	GND	Power	Ground
3	PDMDIN1	Digital	PDM 1 Data Line
4	PDMCLK1	Digital	PDM 1 Clock Line

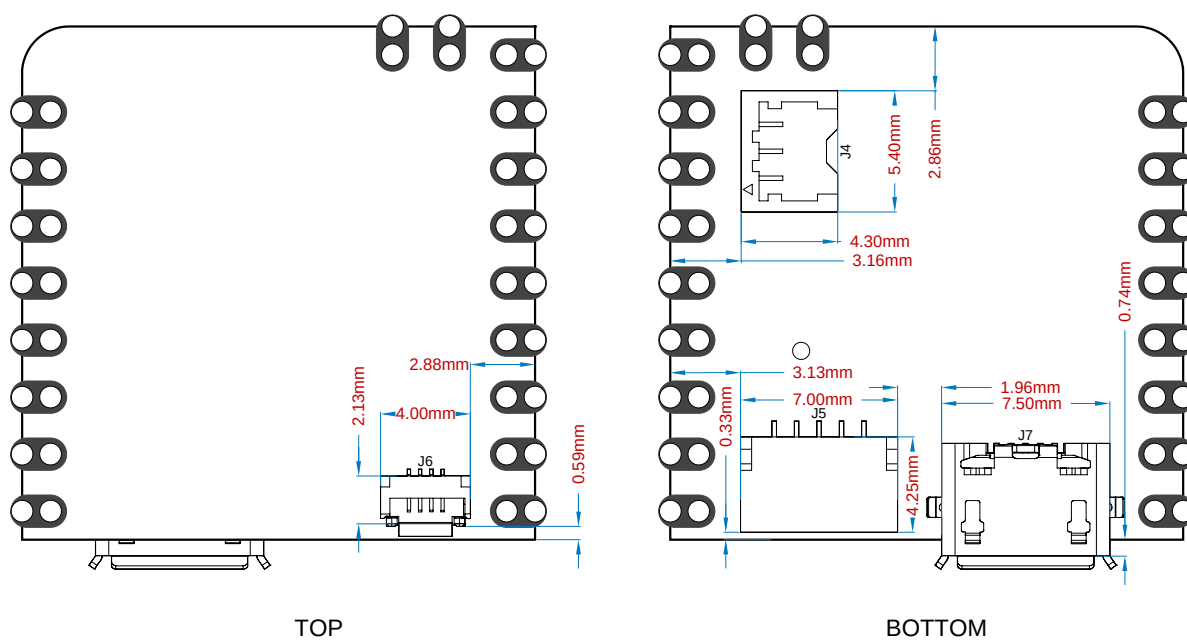
7 Mechanical Information

7.1 Outline Board Measures



Nicla Voice outline measures

7.2 Board's Connectors Measures

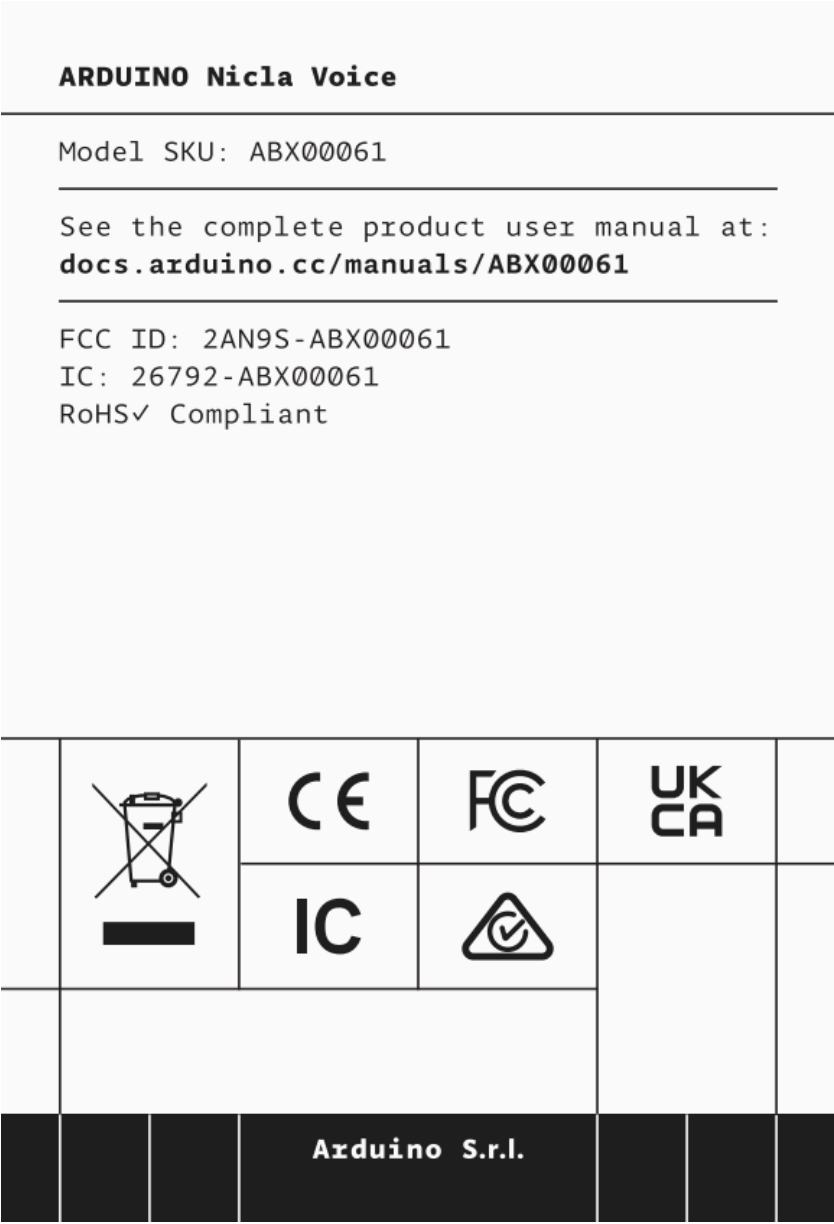


Nicla Voice connectors - mechanical measures

8 Certifications

8.1 Product Labeling

The product labeling of the Arduino Nicla Voice is shown in the image below.



Nicla Voice Product Labeling

8.2 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).

8.3 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.

8.4 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.

9 FCC Caution

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 a minimum distance of 20cm between the radiator & your body.

English: 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.

French: Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil nedit pas produire de brouillage
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC SAR Warning:

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

French: Lors de l'installation et de l'exploitation de ce dispositif, la distance entre le radiateur et le corps est d'au moins 20 cm.

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 201453/EU. This product is allowed to be used in all EU member states.

Frequency bands	Typical Output Power
2.4 GHz, 40 channels	-1.14 dBm

10 Company Information

Company name	Arduino SRL
Company Address	Via Andrea Appiani, 25 - 20900 MONZA (Italy)

11 Reference Documentation

Ref	Link
Arduino® IDE (Desktop)	https://www.arduino.cc/en/Main/Software
Arduino® IDE (Cloud)	https://create.arduino.cc/editor
Arduino® Cloud IDE Getting Started	https://create.arduino.cc/projecthub/Arduino_Genuino/getting-started-with-arduino-web-editor-4b3e4a
Arduino® Pro Website	https://www.arduino.cc/pro
Project Hub	https://create.arduino.cc/projecthub?by=part&part_id=11332&sort=trending
Online Store	https://store.arduino.cc/

12 Revision History

Date	Revision	Changes
03/09/2024	5	Cloud Editor updated from Web Editor
11/06/2024	4	Product Labeling section added
04/06/2024	3	Typical Output Power updated
17/05/2023	2	ESLOV Information updated
05/01/2023	1	First release

13 Product Warnings and Disclaimers

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PURCHASED PRODUCTS CONTAIN SMALL PARTS THAT COULD BE A CHOKING HAZARD TO CHILDREN OR PETS. KEEP ALL SMALL PARTS AWAY FROM CHILDREN AND PETS.

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