

# lamaPLC project: Digitales Potentiometer Board Moduls

A digital potentiometer (or “digipot”), such as the **Renesas X9C** series, is a semiconductor device that replicates the function of a mechanical potentiometer—varying resistance—but replaces the manual knob with digital control signals.

## Renesas X9C series

The X9C102, X9C103, X9C104, and X9C503 are digitally controlled (XDCCP) potentiometers. The device consists of a resistor array, wiper switches, a control section, and nonvolatile memory. The wiper position is controlled by a three-wire interface.



The potentiometer is implemented using a resistor array composed of 99 resistive elements and a wiper-switching network. Between each element and at either end are tap points accessible to the wiper terminal. The position of the wiper element is controlled by the CS, U/D, and INC inputs. The wiper position can be stored in non-volatile memory and recalled upon subsequent power-up.

The device can be used as a three-terminal potentiometer or a two-terminal variable resistor in a wide variety of applications, from control to signal processing to parameter adjustment.

Model	Total Resistance ( $R_{total}$ )	Step Size (approx.)	Temp.Coefficient	Max Terminal Voltage Differential ( $\Delta V$ )
X9C102	1 K $\Omega$	10.1 $\Omega$	+600 ppm/ $^{\circ}$ C	4 V
X9C103	10 K $\Omega$	101 $\Omega$	+300 ppm/ $^{\circ}$ C	10 V
X9C104	100 K $\Omega$	505 $\Omega$	+300 ppm/ $^{\circ}$ C	10 V
X9C503	50 K $\Omega$	1010 $\Omega$	+300 ppm/ $^{\circ}$ C	10 V

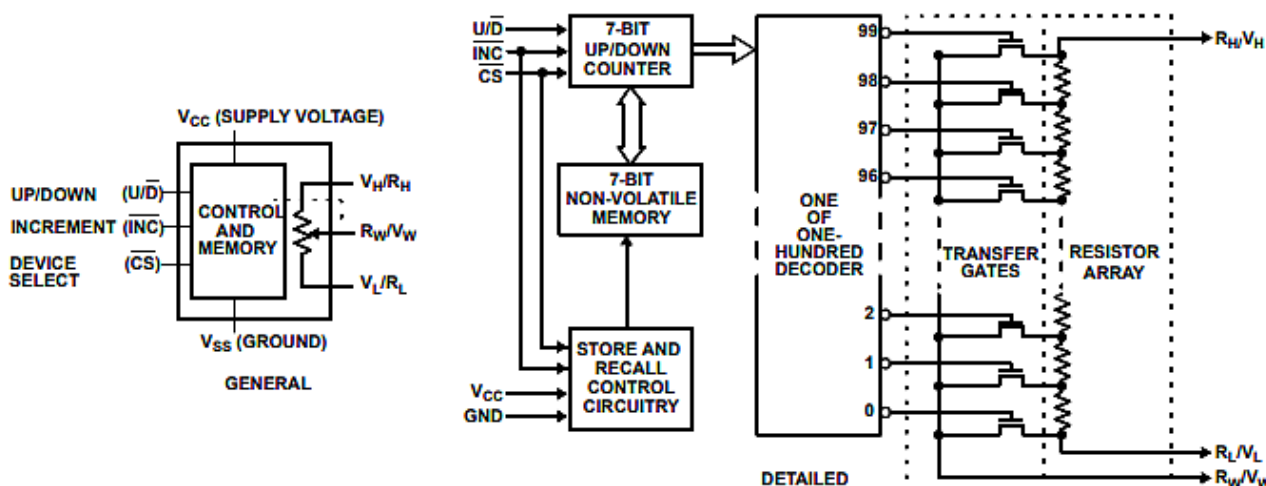
- **Resolution:** 100 Wiper Tap Points (0–99).
- **Interface:** 3-wire serial (CS, U/D, INC).
- **Memory:** Non-volatile EEPROM (retains position for 100 years).
- **Supply Voltage (Vcc):** 5V
- **Resistance Tolerance:**  $\pm 20\%$  end-to-end.
- **Typical Wiper Resistance:** 40  $\Omega$  at 1 mA



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Full datasheet: <https://www.renesas.com/en/document/dst/x9c102-x9c103-x9c104-x9c503-datasheet>

### Pinout for the Renesas X9C series module board

The Renesas X9C series module board, commonly known as the X9C103S module, organizes the chip's pins into two separate header rows, making it more convenient to connect with breadboards and microcontrollers such as Arduino. Usually, it includes a 5-pin control header on one side and a 3-pin potentiometer header on the opposite side.

Header	Pin Label	Name	Function
Control	VCC	Power	Connects to +5V supply.
Control	GND	Ground	Circuit common ground.
Control	CS	Chip Select	Active LOW. Must be pulled low to enable control.
Control	INC	Increment	Negative-edge triggered. Pulses move the wiper.
Control	U/D	Up/Down	Direction: HIGH to increase, LOW to decrease.
Potentiometer	VH (or H)	High	High-end terminal of the pot (max +5V).
Potentiometer	VW (or W)	Wiper	The adjustable "middle" output pin.
Potentiometer	VL (or L)	Low	Low-end terminal of the pot (min -5V).

### Quick Wiring Guide

- **For 0-5V Voltage Divider:** Connect VH to 5V, VL to GND, and read the output from VW.
- **Control Interface:** Connect CS, INC, and U/D to any three digital GPIO pins on your microcontroller.
- **Saving Settings:** To save the current resistance so it persists after power-off, you must pull CS HIGH while INC is already HIGH.

### Arduino example code

To operate a Renesas X9C series digital potentiometer (such as the X9C103S) with an Arduino, you can either utilise a dedicated library like **DigiPotX9Cxxx** or manually control the pins. Here is a

straightforward example that gradually varies the resistance from minimum to maximum without requiring any external library.

## Wiring Diagram

X9C Module Pin	Arduino Pin	Description
VCC	5V	Power Supply
GND	GND	Ground
CS	Pin 10	Chip Select (Active LOW)
INC	Pin 9	Increment (Pulse to move)
U/D	Pin 8	Up/Down (HIGH = Up, LOW = Down)
VH / VL	5V / GND	To use as a 0-5V voltage divider
VW	A0	Connect to Analogue Pin 0 to see results

```
// Pin Definitions
const int CS_PIN = 10;
const int INC_PIN = 9;
const int UD_PIN = 8;

void setup() {
  Serial.begin(9600);

  // Set control pins as outputs
  pinMode(CS_PIN, OUTPUT);
  pinMode(INC_PIN, OUTPUT);
  pinMode(UD_PIN, OUTPUT);

  // Initial state: deselect chip and set high idle
  digitalWrite(CS_PIN, HIGH);
  digitalWrite(INC_PIN, HIGH);

  Serial.println("Starting X9C Sweep...");
}

// Function to move the wiper 1 step
void moveWiper(bool up) {
  digitalWrite(UD_PIN, up ? HIGH : LOW); // Set direction
  digitalWrite(CS_PIN, LOW);           // Select chip
  delayMicroseconds(1);

  digitalWrite(INC_PIN, LOW);           // Falling edge moves wiper
  delayMicroseconds(1);
  digitalWrite(INC_PIN, HIGH);          // Return to high

  digitalWrite(CS_PIN, HIGH);           // Deselect to end movement
}

// Function to reset the wiper to 0 (by moving down 100 times)
void resetToZero() {
```

```

for (int i = 0; i < 100; i++) {
  moveWiper(false);
}
}

void loop() {
  resetToZero(); // Start from a known position (0)
  Serial.println("At 0% resistance");
  delay(2000);

  // Gradually increase resistance
  for (int i = 0; i < 100; i++) {
    moveWiper(true);
    int value = analogRead(A0); // Read voltage at wiper
    Serial.print("Step: "); Serial.print(i);
    Serial.print(" | Analog Value: "); Serial.println(value);
    delay(50);
  }

  Serial.println("At 100% resistance");
  delay(2000);
}

```

## Key Logic Steps

- **Selection:** The chip is only active when CS is pulled LOW.
- **Direction:** The U/D pin indicates whether the resistance increases or decreases.
- **The “Pulse”:** The INC pin is negative-edge triggered. A transition from HIGH to LOW triggers the movement.
- **No Feedback:** These chips cannot tell the Arduino their current position. The `resetToZero()` function ensures you start at a known point by forcing the wiper down 100 times.

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• LamaPLC: APDS - Avago ALS and proximity detection sensors with I <sup>2</sup> C communication	2026/04/23 21:52	avago, apds-9900, apds-9930, apds-9960, als, proximity, detection, gesture recognition, gesture, i2c, communication, sensor, arduino, code
• lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module	2026/03/28 23:50	communication, i2c, as5600, as-5600, magnetic, induction, angle, sensor
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• LamaPLC: CJMCU-219/INA-219 breakout board/IC with I <sup>2</sup> C communication	2026/04/23 21:52	cjmcu-219, ina-219, ina219, breakout board, i2c, communication, sensor, voltage, current, arduino, code, cjmcu
• LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I <sup>2</sup> C communication	2026/04/23 21:52	cjmcu-3216, cjmcu, ap-3216, ap3216, ambient light, proximity, sensor, arduino, code, i2c, communication
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• LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication	2026/04/23 21:52	cjmcu, cjmcu-6701, acs758, acs-758, galvanic skin response, gsr, electrodermal activity, eda, spi, communication, arduino, code, sensor, healthcare
• LamaPLC: CJMCU-6814 combined gas sensor module for CO, NO <sub>2</sub> , NH <sub>3</sub>	2026/04/23 21:52	analog, cjmcu, cjmcu-6814, mics6814, mics-6814, sensor, arduino, code, carbon monoxide, co, ammonia, nh <sub>3</sub> , nitrogen dioxide, no <sub>2</sub>
• lamaPLC: CJMCU-811 CCS811 Gas Sensor (VOCs TVOC CO <sub>2</sub> )	2026/03/22 00:08	cjmcu-811, ccs811, gas, sensor, vocs, tvoc, eco2, co2, arduino, air quality metal oxide, mox, i2c
• LamaPLC: CJMCU-8221 Analog Devices Precision instrumentation amplifier module	2026/04/23 21:52	cjmcu-8221, ad8221ar, analog devices, amplifier, sensor, cjmcu

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- [lamaPLC: ENS160 + AHT21 Air Quality Sensor - CO, ECO, TVOC, Temp & Humidity Module](#) 2026/04/23 21:52 [arduino, ens160, aht21, air quality, sensor, co, eco, tvoc, module, aqi](#)
- [LamaPLC: Gas sensors](#) 2023/07/01 17:29 [gas, sensor, i2c, onewire, communication, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-135, gm-102b, gm-302b, gm-502b, gm-702b, alcohol, ch4, natural gas, smoke, lng, co, co2, lpg, h2, iso-butane, nox, nh3, benzene, town gas, formaldehyde, propane, humidity, temperature, voc, grv gas sens v2](#)
- [LamaPLC: GM MEMS Gas-sensors](#) 2026/04/23 21:52 [gm-102b, gm-302b, gm-502b, gm-702b, mems, gas-quality, sensor, arduino, code, nitrogen dioxide, no2, volatile organic compounds, voc, carbon monoxide, co, ethyl alcohol, c2h5ch, formaldehyde, ch2o, alcohol, c2h5oh](#)
- [lamaPLC: GY-511 6DOF sensor module](#) 2026/03/22 01:44 [stmicroelectronics, lsm303dlhc, i2c, lsm303, sensor, gy-511, 6dof, pololu, module, arduino](#)
- [LamaPLC: HC-SR04 Ultrasonic Sensor Module](#) 2026/04/23 21:52 [hc-sr04, ultrasonic, sensor, arduino, code](#)
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• lamaPLC: INA226 - current/voltage/power monitor with I <sup>2</sup> C communication	2026/04/23 21:52	i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina226, ina219, ina
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• lamaPLC: Max31865 RTD to Digital Converter - PT100/PT1000 Platine	2026/04/23 21:52	max31865, rtd, pt 100, pt 1000, temperature, spi, platinum, arduino, code, sensor, adafruit
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• <a href="#">LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication</a>	2026/04/23 21:52	<a href="#">ads111x</a> , <a href="#">ads12xx</a> , <a href="#">delta-sigma</a> , <a href="#">converter</a> , <a href="#">texas instruments</a> , <a href="#">adc</a> , <a href="#">spi</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">ads1110</a> , <a href="#">ads1112</a> , <a href="#">ads1113</a> , <a href="#">ads1114</a> , <a href="#">ads1115</a> , <a href="#">ads1118</a> , <a href="#">ads1119</a> , <a href="#">ads1220</a> , <a href="#">ads1232</a> , <a href="#">ads1234</a> , <a href="#">ads1256</a> , <a href="#">ads1261</a> , <a href="#">ads1263</a> , <a href="#">multi channel</a>
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• <a href="#">NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU</a>	2026/02/14 18:49	<a href="#">nt18b07</a> , <a href="#">sensor</a> , <a href="#">modbus</a> , <a href="#">rtu</a> , <a href="#">rs-485</a> , <a href="#">communication</a> , <a href="#">platine</a>
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