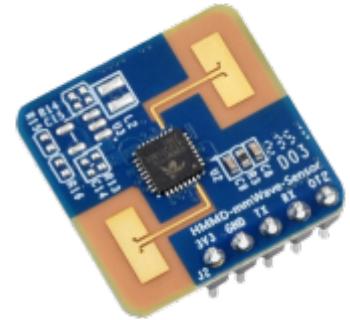


# lamaPLC: RD-xx - Ai-Thinker Radar Module with UART communication

The Ai-Thinker RD-xx series comprises 24 GHz mmWave radar modules, each optimized for varying levels of human detection and tracking complexity. While all use FMCW technology, their primary differences lie in connectivity, target tracking capabilities, and power requirements.



## Comparison of RD-01, RD-03, and RD-03D:

Feature	RD-01	RD-03	RD-03D
Primary Focus	Human presence + Wireless	Precise motion/presence	Multi-target trajectory tracking
Connectivity	UART, Wi-Fi, BLE 5.0	UART	UART
Detection Range	Up to 5 meters	Up to 6.5 meters	Up to 8 meters
Detection Angle	$\pm 60^\circ$ (Horizontal)	$\pm 60^\circ$ (Horizontal)	$\pm 60^\circ$ (Azimuth), $\pm 30^\circ$ (Pitch)
Target Tracking	Single presence/motion	Single presence/motion	Up to 3 targets simultaneously
Data Output	Presence, micro-motion	Presence, micro-motion	X/Y coordinates, speed, distance
UART Baud Rate	115200 (Default)	115200 (Default)	256000 (Default)
Power Supply	3.0V - 3.6V	3.0V - 3.6V	5V (Stable)
Size	35 x 18 mm	20 x 20 mm	15 x 44 mm

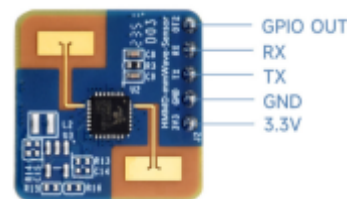
## Key Differentiators

- **RD-01:** The only one in this group with integrated Wi-Fi and Bluetooth (via BL602 chip). It is designed for smart home products that need to report human presence directly to a cloud or app without an external gateway.
- **RD-03:** A cost-optimized, standalone version of the RD-01 without wireless features. It offers higher bandwidth (1 GHz) for better interference resistance and is ideal for simple “occupied/unoccupied” triggers such as lighting.
- **RD-03D:** The most advanced in the series. Unlike the others, it provides a spatial map of up to three people, showing their exact positions in a room (X and Y coordinates) and their speed.




Rd-03 is an electrostatically sensitive piece of equipment; special precautions should be taken during handling.

### PIN out



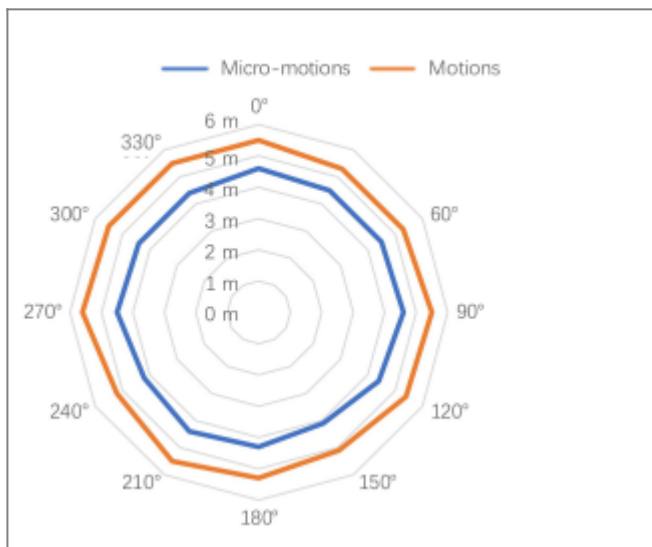
<b>3V3</b>	input power
<b>GND</b>	Ground
<b>OT1</b>	UART_TX
<b>RX</b>	UART_RX
<b>OT2</b>	Detection result output, output high level when sensing, output low level when not sensing

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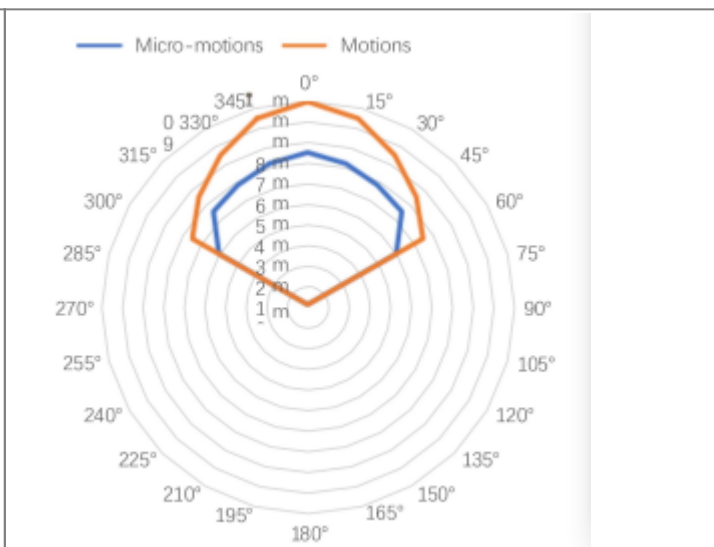
Here's a handy tip: you can quickly save this page as a PDF by clicking "export to PDF" in the menu on the right side of the screen.

2026/02/14 22:38

### Characteristics of perception



Characteristics of a sensor installed on the ceiling, approximately 2.6 to 3 meters high.



Horizontal characteristic of a sensor mounted on a wall, approximately 1.5 to 2 meters high.

### RD-03 Arduino example

To connect the Ai-Thinker RD-03 to an Arduino reliably, use a dedicated library such as [RD03Radar](#). This library simplifies the interpretation of complex 24 GHz mmWave data packets by translating them into straightforward presence and motion indicators.

## Pinout

The RD-03 requires a stable 3.0V – 3.6V power supply and communicates via UART at a default baud rate of 115200.

- VCC → Arduino 3.3V
- GND → Arduino GND
- RX → Arduino TX (e.g., Pin 17 for ESP32/Mega)
- TX → Arduino RX (e.g., Pin 16 for ESP32/Mega)

## Arduino code

```
#include <RD03Radar.h>

// Use a HardwareSerial port (e.g., Serial2 on ESP32 or Serial1 on Mega)
// On Uno, you may need SoftwareSerial, but performance may be limited.
RD03Radar radar(Serial2);

void onPresenceChange(RD03PresenceState state, float distance) {
  if (state == RD03PresenceState::MOTION_DETECTED) {
    Serial.print("Motion detected at: ");
    Serial.print(distance);
    Serial.println(" cm");
  } else if (state == RD03PresenceState::STATIONARY_DETECTED) {
    Serial.println("Subject is stationary (e.g., breathing detected).");
  } else {
    Serial.println("Area is clear.");
  }
}

void setup() {
  Serial.begin(115200);

  // Set detection callback
  radar.onPresenceChange(onPresenceChange);

  // Start radar (provide RX and TX pins for ESP32)
  radar.begin(16, 17);
  Serial.println("RD-03 Radar Initialized");
}

void loop() {
  // Required to process incoming serial data
  radar.loop();
}
```

## Sources

<https://cdn.robotshop.com/media/A/Ait/RB-Ait-27/pdf/ai-thinker-radar-module-rd-03-datasheet.pdf>

## Sensor topics on lamaPLC

Page	Date	Tags
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC project: Arduino - OLED SH1106 with AHT20/BMP280 Sensor</a></li> </ul>	2026/02/12 22:14	bmp280, aht20, temperature, humidity, pressure, sensor, arduino, oled, sh1106, arduino code
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC: A0221AU / A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication</a></li> </ul>	2026/02/14 22:31	a0221au, a02yyuw, waterproof, ultrasonic, distance, sensor, uart, ip67, serial, sen0311, dfrobot
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: AHT10 Modul</a></li> </ul>	2026/03/21 19:20	communication, i2c, temperature, humidity, sensor, aht, aht 10, modul
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: AHT20 / BMP280 Modul</a></li> </ul>	2026/02/15 20:33	bmp280, aht20, adafruit, temperature, humidity, pressure, sensor, arduino, code, i2c
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: Allegro ACS758 Hall-effect linear current sensors</a></li> </ul>	2026/02/14 23:38	cjmcu, cjmcu-758, acs758, acs758lcb-050b, acs758lcb-100b, acs758kcb-150b, acs758ecb-200b, hall-effect, current, sensor, analog, arduino, code
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: APDS - Avago ALS and proximity detection sensors with I<sup>2</sup>C communication</a></li> </ul>	2026/02/14 22:24	avago, apds-9900, apds-9930, apds-9960, als, proximity, detection, gesture recognition, gesture, i2c, communication, sensor, arduino, code
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module</a></li> </ul>	2026/03/28 22:07	communication, i2c, as5600, as-5600, magnetic, induction, angle, sensor
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: BMP/BME Bosch Temperature/Humidity/Pressure sensors with I<sup>2</sup>C communication</a></li> </ul>	2026/02/15 20:40	bme280, bme680, bmp180, bmp280, hw-611, hw611, bosch, temperature, humidity, pressure, sensor, arduino, i2c, communication, cjmcu
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: BQ25570 / CJMCU-2557 - Texas Instruments nano-power management IC and module</a></li> </ul>	2026/02/14 23:36	bq25570, sensor, texas instruments, nano-power management, dc-dc boost charger, mppt, solar, thermoelectric, piezoelectric
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: CJMCU-219/INA-219 breakout board/IC with I<sup>2</sup>C communication</a></li> </ul>	2026/02/14 23:37	cjmcu-219, ina-219, ina219, breakout board, i2c, communication, sensor, voltage, current, arduino, code, cjmcu
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I<sup>2</sup>C communication</a></li> </ul>	2026/02/14 22:40	cjmcu-3216, cjmcu, ap-3216, ap3216, ambient light, proximity, sensor, arduino, code, i2c, communication
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: CJMCU-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication</a></li> </ul>	2026/02/14 22:39	cjmcu-3901, cjmcu, pmw3901, pmw-3901, optical flow, sensor, pixart, spi, communication, arduino, code, pmw3901mb-txqt

• LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication	2026/02/14 23:39	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>	2026/02/14 22:16	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 CO2)	2026/03/21 22:25	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	2026/02/14 22:55	cjmcu-8221, ad8221ar, analog devices, amplifier, sensor, cjmcu
• LamaPLC: D6T Omron Non-Contact Thermal Sensors with I <sup>2</sup> C communication	2026/02/14 18:19	d6t, d6t-32l, d6t-44l, d6t-8l, d6t-1a, omron, non-contact, thermal, sensor, i2c, arduino, code
• LamaPLC: DHT Temperature /Humidity sensors with 1-wire / I <sup>2</sup> C communication	2026/02/15 20:42	dht11, dht20, dht22, temperature, humidity, pressure, sensor, 1-wire, arduino, code
• LamaPLC: DPS Infineon Temperature/Pressure sensors with I2C communication	2026/02/14 18:11	dps310, infineon, temperature, pressure, sensor, arduino, i2c, communication, code
• lamaPLC: DS18B20 1-Wire Digital Thermometer	2026/02/15 20:44	ds18b20, sensor, 1-wire, communication, arduino, thermometer, parasitic mode
• lamaPLC: Energy, power, current, and voltage	2025/05/31 21:32	i2c, i c, communication, arduino, energy, power, current, sensor, ina226
• LamaPLC: ENS ScioSense Multi-gas sensors with I <sup>2</sup> C communication	2026/02/14 19:29	ens160, sciosense, gas-quality, i2c, communication, sensor, arduino, code, eco <sub>2</sub> , tvoc, aqi, indoor air quality, iaq, co <sub>2</sub> , voc
• lamaPLC: ENS160 + AHT21 Air Quality Sensor - CO, ECO, TVOC, Temp & Humidity Module	2026/03/21 20:45	arduino, ens160, aht21, air quality, sensor, co, eco, tvoc, module, aqi
• LamaPLC: Gas sensors	2023/07/01 15:29	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	2026/02/14 22:18	gm-102b, gm-302b, gm-502b, gm-702b, mems, gas-quality, sensor, arduino, code, nitrogen dioxide, no <sub>2</sub> , volatile organic compounds, voc, carbon monoxide, co, ethyl alcohol, c <sub>2</sub> h <sub>5</sub> ch, formaldehyde, ch <sub>2</sub> o, alcohol, c <sub>2</sub> h <sub>5</sub> oh

- [lamaPLC: GY-511 6DOF sensor module](#) 2026/03/22 00:26 [stmicroelectronics, lsm303dlhc, i2c, lsm303, sensor, gy-511, 6dof, pololu, module, arduino](#)
- [LamaPLC: HC-SR04 Ultrasonic Sensor Module](#) 2026/02/14 22:19 [hc-sr04, ultrasonic, sensor, arduino, code](#)
- [LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I<sup>2</sup>C communication](#) 2026/02/14 22:09 [sht21, htu21, si7021, gy-21, gy-213v, hdc1080, gy-213v-hdc1080, cjmcu, cjmcu-1080, texas instruments, temperature, humidity, sensor, i2c, communication, arduino, code](#)
- [LamaPLC: HTU TE Connectivity temperature/humidity sensors with I<sup>2</sup>C communication](#) 2026/02/14 21:54 [htu, htu31d, htu21d, htu20d, sht20, htu20, sht21, htu21, si7021, gy-21, gy-213v, hdc1080, si702, gy-20, sht31, htu31, si7031, gy-31, te connectivity, temperature, humidity, i2c, communication, sensor, arduino, code](#)
- [LamaPLC: HX711 24-bit analog-to-digital converter \(ADC\)](#) 2026/02/15 23:59 [hx711, hx-711, analog-to-digital, adc, converter, load cell, wheatstone bridge, weight, sensor, communication, arduino, code](#)
- [lamaPLC: INA modules with Arduino libraries](#) 2026/03/28 18:02 [i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina219, ina226, ina228, ina237, ina238, ina260, ina3221, ina](#)
- [lamaPLC: INA226 - current/voltage/power monitor with I<sup>2</sup>C communication](#) 2026/02/14 23:58 [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](#) 2026/02/14 17:38 [max31865, rtd, pt 100, pt 1000, temperature, spi, platinum, arduino, code, sensor, adafruit](#)
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- [LamaPLC: MH-Z19 series of NDIR CO<sub>2</sub> sensors](#) 2026/02/15 20:20 [mh-z19, mh-z19d, mh-z19c, mh-z19b, mh-z19e, ndir, co<sub>2</sub>, sensor, winsen, uart, pwm, communication, non-dispersive infrared, infrared, ir, temperature, arduino, code, tasmota](#)
- [lamaPLC: MPU-6050 \(HW-123, GY-521\) 6-axis MotionTracking device](#) 2026/03/22 01:24 [mpu-6050, hw-123, gy-521, 6-axis motiontracking, dmp, temperature, sensor, mems, arduino code, arduino, accelerometer, gyroscope, tilt](#)

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• <a href="#">lamaPLC: PT100 / PT1000</a>	2025/09/23 16:59	<a href="#">pt100</a> , <a href="#">pt1000</a> , <a href="#">temperature</a> , <a href="#">sensor</a> , <a href="#">platine</a> , <a href="#">rtd</a>
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• <a href="#">lamaPLC: RD-xx - Ai-Thinker Radar Module with UART communication</a>	2026/02/14 22:33	<a href="#">radar</a> , <a href="#">s3km1110</a> , <a href="#">fmcw</a> , <a href="#">rd-01</a> , <a href="#">rd-03</a> , <a href="#">rd-03d</a> , <a href="#">ai-thinker</a> , <a href="#">k-band</a> , <a href="#">24 ghz</a> , <a href="#">sensor</a> , <a href="#">distance</a> , <a href="#">micro-movements</a>
• <a href="#">LamaPLC: SGP Sensirion Gas-sensors with I<sup>2</sup>C communication</a>	2026/02/15 20:27	<a href="#">sgp30</a> , <a href="#">sgp40</a> , <a href="#">sgp41</a> , <a href="#">sensirion</a> , <a href="#">gas-sensor</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">eco2</a> , <a href="#">voc</a> , <a href="#">tvoc</a> , <a href="#">indoor air quality</a> , <a href="#">iaq</a> , <a href="#">nox</a> , <a href="#">hydrogen</a>
• <a href="#">LamaPLC: SHT Sensirion Temperature/humidity sensor with I<sup>2</sup>C communication</a>	2026/02/15 20:29	<a href="#">sht20</a> , <a href="#">sht21</a> , <a href="#">sht25</a> , <a href="#">sht30</a> , <a href="#">sht31</a> , <a href="#">sht35</a> , <a href="#">sht40</a> , <a href="#">gy21</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication</a>	2026/02/15 22:34	<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>
• <a href="#">LamaPLC: TOFnnnC STMicroelectronics Time-of-Flight (ToF) sensors with I<sup>2</sup>C communication</a>	2026/02/14 22:22	<a href="#">tof050c</a> , <a href="#">vl6180</a> , <a href="#">tof200c</a> , <a href="#">vl53l0x</a> , <a href="#">tof400c</a> , <a href="#">vl53l1x</a> , <a href="#">stmicroelectronics</a> , <a href="#">time-of-flight</a> , <a href="#">tof</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
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• <a href="#">LamaPLC: VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I<sup>2</sup>C communication</a>	2026/02/14 22:21	<a href="#">vl53l0x</a> , <a href="#">vl53l1x</a> , <a href="#">vl53l0 1xv2</a> , <a href="#">gy-530</a> , <a href="#">time-of-flight</a> , <a href="#">tof</a> , <a href="#">laser-ranging</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I<sup>2</sup>C communication</a>	2026/02/14 22:22	<a href="#">vl6180x</a> , <a href="#">stmicroelectronics</a> , <a href="#">time-of-flight</a> , <a href="#">tof</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: Waveshare TOF Laser Range Sensor with UART / I<sup>2</sup>C communication</a>	2026/02/14 22:32	<a href="#">distance measurement</a> , <a href="#">laser</a> , <a href="#">range</a> , <a href="#">sensor</a> , <a href="#">tof</a> , <a href="#">waveshare</a>

- [lamaPLC: YR-3180 - Weight sensor module with UART or Modbus communication](#) 2026/02/14 23:00 [communication, modbus, rtu, sensor, weight, yr-3180, hx710b, arduino, ttl, rs-485](#)
- [Magnetic angle sensors](#) 2026/03/05 20:19 [magnetic angle sensor, magnetic flux, sensor, spi, i2c, pwm, communication, modul, as5047p, as5600, mt6701, mt6816, mt6835, tle5012b, amr, gmr, tmr, anisotropic magnetoresistive](#)
- [NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU](#) 2026/02/14 17:49 [nt18b07, sensor, modbus, rtu, rs-485, communication, platine](#)
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- [Radar Module RD-xx](#) 2025/11/09 17:38 [radar, s3km1110, fmcw, rd-03, k-band, 24 ghz, sensor, distance, micro-movements](#)

[radar, S3KM1110, FMCW, RD-01, RD-03, RD-03D, Ai-Thinker, K-band, 24 GHz, sensor, distance, micro-movements](#)

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