**TRƯỜNG ĐẠI HỌC GIAO THÔNG VẬN TẢI**

**KHOA ĐIỆN – ĐIỆN TỬ**

**BỘ MÔN KỸ THUẬT ĐIỆN TỬ**

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**ĐỒ ÁN TỐT NGHIỆP**

**HỆ THỐNG TRANG TRẠI THÔNG MINH TỪ XA TÍCH HỢP LORA**

**Giảng viên hướng dẫn : ThS Trần Văn Hưng**

**Sinh viên thực hiện: Nguyễn Ngọc Thắng**

**Lớp : Kỹ thuật điện tử và Tin học công nghiệp 2**

**Khoá : K61**

**Hà Nội, tháng 01 năm 2025**

**LỜI NÓI ĐẦU**

Trong bối cảnh công nghệ ngày càng phát triển, việc ứng dụng các giải pháp tiên tiến vào nông trại gia đình không chỉ nâng cao hiệu quả sản xuất mà còn cải thiện chất lượng cuộc sống của người nông dân. Công nghệ **LoRa** (Long Range) đã chứng tỏ ưu thế vượt trội với khả năng truyền tải dữ liệu tầm xa, tiêu thụ năng lượng thấp và hoạt động ổn định trong môi trường nông thôn nơi kết nối mạng thường không đáng tin cậy.

Đồ án này tập trung vào việc thiết kế và triển khai một hệ thống tích hợp giám sát các yếu tố môi trường như nhiệt độ, độ ẩm và nồng độ khí NH₃, đồng thời điều khiển các thiết bị điện như đèn chiếu sáng, quạt thông gió và máy bơm nước. Dữ liệu từ các cảm biến được truyền về vi điều khiển qua giao tiếp LoRa để xử lý và hiển thị. Hệ thống được thiết kế để tự động hóa toàn bộ quá trình, từ giám sát đến điều khiển, dựa trên các ngưỡng giá trị được cài đặt trước, giúp tối ưu hóa việc sử dụng tài nguyên và đảm bảo môi trường phát triển tốt nhất cho cây trồng và vật nuôi.

Việc áp dụng hệ thống này không chỉ mang lại lợi ích về kinh tế thông qua tăng năng suất và giảm lãng phí mà còn giúp người nông dân dễ dàng quản lý công việc hàng ngày, giảm thiểu gánh nặng lao động. Hơn nữa, với thiết kế thân thiện và dễ sử dụng, hệ thống phù hợp với mọi đối tượng, từ những người trẻ quen thuộc với công nghệ đến các nông dân lớn tuổi.

Đồ án không chỉ đơn thuần là một giải pháp kỹ thuật mà còn là bước tiến quan trọng trong hiện đại hóa nông nghiệp. Việc ứng dụng công nghệ LoRa vào giám sát và điều khiển trong nông trại gia đình thể hiện sự kết hợp giữa khoa học công nghệ và thực tiễn đời sống, góp phần xây dựng một mô hình nông nghiệp bền vững, hiện đại và mang lại lợi ích thiết thực cho cộng đồng.Top of Form

Bottom of Form

**LỜI CẢM ƠN**

**MỤC LỤC**

**DANH MỤC CÁC HÌNH ẢNH**

# TỔNG QUAN

## 1 Đặt vấn đề

Trong những năm gần đây, sự phát triển vượt bậc của công nghệ đã mở ra nhiều cơ hội mới cho ngành nông nghiệp. Tuy nhiên, việc áp dụng các công nghệ tiên tiến vào nông nghiệp, đặc biệt là tại các nông trại gia đình, vẫn còn gặp nhiều khó khăn do hạn chế về kiến thức kỹ thuật và nguồn lực tài chính. Truyền thống canh tác nông nghiệp phụ thuộc nhiều vào kinh nghiệm và công việc thủ công, dẫn đến hiệu suất sản xuất không ổn định và khó kiểm soát.

Nông trại gia đình thường gặp phải các vấn đề như:

* **Khó khăn trong giám sát môi trường:** Việc giám sát các yếu tố môi trường như nhiệt độ, độ ẩm,… thường được thực hiện thủ công, không liên tục và thiếu chính xác. Điều này dẫn đến việc khó kiểm soát điều kiện canh tác tối ưu cho cây trồng và vật nuôi.
* **Điều khiển thiết bị điện thiếu hiệu quả:** Các thiết bị như bơm nước, quạt, và đèn chiếu sáng thường được vận hành thủ công hoặc bằng các bộ hẹn giờ cố định, không thể phản ứng kịp thời theo biến động của môi trường, dẫn đến lãng phí năng lượng và tài nguyên.
* **Thiếu tính tự động hóa:** Hầu hết các hoạt động nông nghiệp vẫn dựa vào sức lao động thủ công, khiến người nông dân mất nhiều thời gian và công sức, đồng thời khó có thể phản ứng nhanh trước các thay đổi đột ngột của điều kiện môi trường.

Để giải quyết các vấn đề trên, việc áp dụng công nghệ truyền thông LoRa vào nông nghiệp gia đình được xem là một giải pháp hiệu quả. LoRa cho phép truyền tải dữ liệu ở khoảng cách xa với mức tiêu thụ năng lượng thấp, tạo ra một hệ thống giám sát và điều khiển thông minh. Công nghệ này không yêu cầu kết nối internet trực tiếp, rất phù hợp với môi trường nông thôn nơi mạng internet thường không ổn định

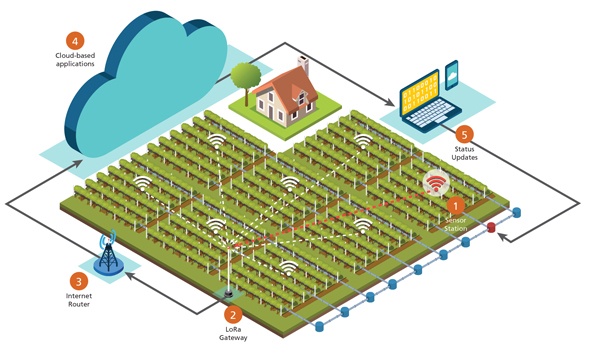
## 1.2 Tổng quan về LoRA

### 1.2.1 Khái niệm LoRA

LoRa, viết tắt của *Long Range Radio*, là một công nghệ truyền thông không dây tiên tiến, sử dụng kỹ thuật điều chế sóng vô tuyến do các chip thu phát của Semtech LoRa tạo ra. Đặc trưng nổi bật của kỹ thuật này là khả năng truyền tải dữ liệu tầm xa với băng thông thấp, mức tiêu thụ năng lượng tối thiểu và khả năng chống nhiễu vượt trội. Nhờ vậy, LoRa trở thành lựa chọn lý tưởng cho các thiết bị IoT (Internet of Things) vốn yêu cầu hiệu suất cao và thời lượng pin lâu dài.

**Những ưu điểm nổi bật của LoRa:** LoRa cho phép truyền dữ liệu ở khoảng cách lên đến 10 km (tùy thuộc vào thiết kế anten và môi trường vật cản), đây là một lợi thế lớn so với các công nghệ như Wi-Fi hoặc 3G/4G. Công nghệ này tiết kiệm năng lượng tối ưu, giúp thiết bị hoạt động bền bỉ trong thời gian dài mà không cần thay pin. Mỗi gateway LoRa có khả năng xử lý hàng triệu node, đồng thời tín hiệu có thể bao phủ phạm vi rộng lớn mà không cần các mạch khuếch đại công suất, giảm đáng kể chi phí xây dựng hạ tầng mạng.

Các tính năng ưu việt của LoRa giúp giải quyết các thách thức trong việc phát triển IoT, bao gồm: hạn chế về dung lượng mạng, yêu cầu tuổi thọ pin dài và khả năng bảo mật cao trong truyền tải dữ liệu. Nhờ đó, LoRa không chỉ thúc đẩy sự phát triển mạnh mẽ của IoT mà còn phù hợp với các ứng dụng như mạng cảm biến (sensor network), nơi các sensor node có thể gửi dữ liệu đo đạc về trung tâm cách xa hàng km mà vẫn duy trì hiệu suất vượt trội và tiêu hao năng lượng thấp.



Hình 1.1 Mô hình mạng LoRA

### 1.2.2 Nguyên lý hoạt động của LoRA

LoRa sử dụng kỹ thuật điều chế gọi là *Chirp Spread Spectrum* (CSS). Nguyên lý cơ bản của CSS là dữ liệu gốc sẽ được "băm" thành các xung cao tần (chipped), tạo ra tín hiệu có dải tần số cao hơn nhiều so với dữ liệu ban đầu. Sau đó, tín hiệu này được mã hóa bằng chuỗi tín hiệu chirp (*chirp signals*) – là các sóng hình sin có tần số thay đổi theo thời gian.

**Loại tín hiệu chirp:** Có hai dạng chirp signal chính:

* *Up-chirp*: Tần số tăng dần theo thời gian, biểu thị cho bit 1.
* *Down-chirp*: Tần số giảm dần theo thời gian, biểu thị cho bit 0.

Trước khi truyền qua anten, dữ liệu sẽ được mã hóa theo các chirp signal này.

**Ưu điểm kỹ thuật của CSS:**

1. **Giảm độ phức tạp của bộ thu:** Theo Semtech, kỹ thuật này làm giảm yêu cầu về độ chính xác và độ phức tạp của mạch thu khi giải mã và tái tạo dữ liệu.
2. **Hiệu quả ở công suất thấp:** LoRa có thể truyền dữ liệu ở khoảng cách xa mà không cần công suất phát lớn, vì tín hiệu vẫn được nhận dù cường độ tín hiệu thấp hơn mức nhiễu môi trường.
3. **Khả năng chống nhiễu vượt trội:** Nhờ sử dụng chirp signal với các tốc độ chirp (*chirp rates*) khác nhau, nhiều tín hiệu LoRa có thể hoạt động đồng thời trong cùng một khu vực mà không gây nhiễu lẫn nhau. Điều này giúp nhiều thiết bị LoRa trao đổi dữ liệu qua các kênh riêng biệt, mỗi kênh tương ứng với một tốc độ chirp khác nhau.

**Tần số hoạt động toàn cầu của LoRa:** LoRa sử dụng các băng tần không cần giấy phép khác nhau tùy theo khu vực:

* **430 MHz – 433 MHz:** Phổ biến tại châu Á, trong đó bao gồm cả Việt Nam.
* **780 MHz: Được sử dụng** riêng tại Trung Quốc.
* **433 MHz hoặc 866 MHz:** Sử dụng tại châu Âu, với 433 MHz cho các ứng dụng công suất thấp và 866 MHz (thực tế là 863–870 MHz) dành cho mạng LoRaWAN.
* **915 MHz:** Dành cho Hoa Kỳ, Australia và một số quốc gia ở châu Mỹ.

Nhờ các đặc điểm ưu việt này, LoRa không chỉ giúp tối ưu hóa chi phí và năng lượng tiêu thụ mà còn đảm bảo khả năng truyền dữ liệu ổn định trong các ứng dụng IoT, đặc biệt là trong môi trường có nhiều thiết bị cùng hoạt động.

## 1.3 Tổng quan về LoRAWAN

### 1.3.1 Khái niệm về LoRaWAN

**LoRaWAN (Long Range Wide Area Network)** là một giao thức mạng được xây dựng trên công nghệ LoRa (Long Range Radio). Nó được thiết kế để hỗ trợ các thiết bị IoT (Internet of Things) trong việc truyền dữ liệu qua khoảng cách xa với mức tiêu thụ năng lượng thấp. LoRaWAN là một giao thức mở, được phát triển và tiêu chuẩn hóa bởi **Liên minh LoRa (LoRa Alliance)**, nhằm tối ưu hóa khả năng kết nối trong các ứng dụng IoT.

Cấu trúc software cơ bản của một thiết bị hỗ trợ LoRaWAN như sau:

Chart, table

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**Hình 1.2:** Cấu trúc LoRaWAN

* **Application (Ứng dụng):**
* Đây là lớp trên cùng, nơi triển khai các ứng dụng thực tế, như giám sát môi trường, quản lý đô thị thông minh, hoặc theo dõi sức khỏe.
* **LoRa MAC (Medium Access Control):**
* Quản lý giao tiếp giữa các thiết bị trong mạng. LoRaWAN có các chế độ hoạt động khác nhau (Class A, B, C):
  + **Class A (Baseline):**
    - Thiết bị chỉ gửi dữ liệu khi cần (theo yêu cầu hoặc thời gian định kỳ).
    - Đây là chế độ tiết kiệm năng lượng nhất.
  + **Class B (Baseline):**
    - Thêm các khung thời gian nhận dữ liệu định kỳ để thiết bị có thể nhận lệnh từ máy chủ.
  + **Class C (Continuous):**
    - Luôn mở để nhận dữ liệu, tiêu thụ năng lượng cao hơn nhưng thích hợp cho các ứng dụng cần phản hồi nhanh.
* **LoRa Modulation:**
* Sử dụng kỹ thuật điều chế LoRa để truyền dữ liệu qua sóng vô tuyến. Kỹ thuật này cho phép truyền ở khoảng cách xa với độ bền tín hiệu cao.
* **Regional ISM Band (Băng tần ISM theo khu vực):**
* LoRa hoạt động trên các băng tần ISM khác nhau tùy khu vực:

**EU 868:** Băng tần 863-870 MHz (châu Âu).

**EU 433:** Băng tần 433 MHz (châu Âu và một số khu vực khác).

**US 915:** Băng tần 902-928 MHz (Hoa Kỳ).

**AS 430:** Băng tần 430 MHz (châu Á, bao gồm Việt Nam).

### 1.3.2 Mô hình mạng LoRaWAN

Diagram

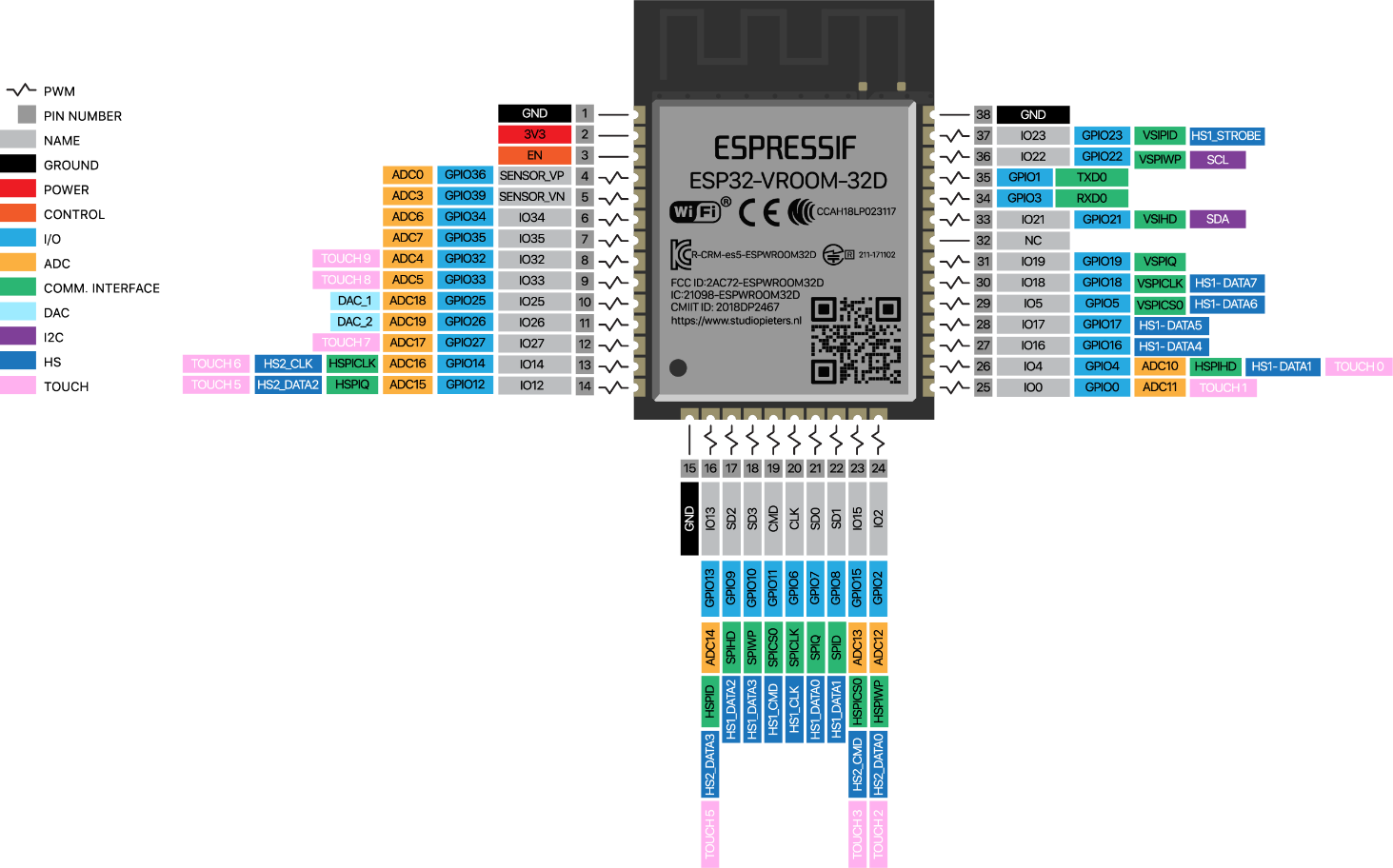
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Hình 1.3 Mô hình mạng LoRaWAN

LoRaWAN được triển khai theo mô hình **Client-Server**, bao gồm các thành phần chính:

1. **End Devices (Thiết bị cuối):**
   * Là các thiết bị IoT như cảm biến, đồng hồ đo, hoặc bộ điều khiển.
   * Chúng giao tiếp với Gateway thông qua sóng LoRa và gửi dữ liệu đo đạc hoặc lệnh điều khiển.
2. **Gateways (Cổng kết nối):**
   * Là các thiết bị trung gian, thu thập dữ liệu từ các End Devices qua LoRa và chuyển tiếp đến Network Server thông qua các giao thức IP (như Wi-Fi, Ethernet, hoặc 4G).
3. **Network Server (Máy chủ mạng):**
   * Quản lý kết nối giữa các thiết bị và đảm bảo truyền tải dữ liệu đúng địa chỉ.
   * Loại bỏ dữ liệu trùng lặp, quản lý bảo mật và phân bổ tài nguyên.
4. **Application Server (Máy chủ ứng dụng):**
   * Xử lý dữ liệu nhận được từ Network Server và gửi đến ứng dụng hoặc giao diện người dùng cuối cùng.
5. CƠ SỞ LÝ THUYẾT
   1. THIẾT BỊ PHẦN CỨNG
      1. ESP32

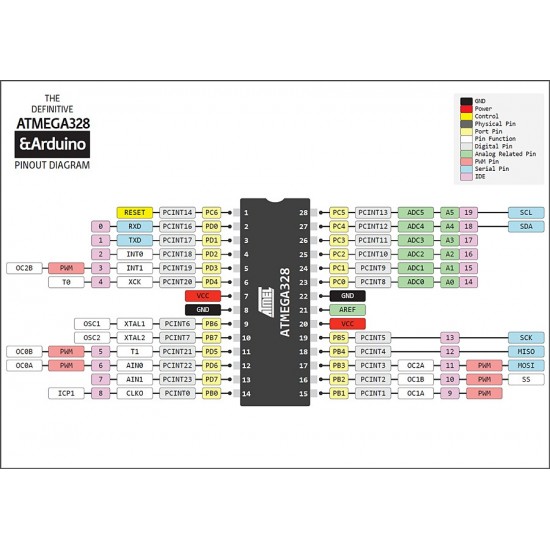
ESP32 là một SoC giá rẻ của Espressif Systems, kế thừa từ ESP8266, tích hợp bộ vi xử lý 32-bit Xtensa LX6 với cả Wi-Fi và Bluetooth. Ưu điểm chính của ESP32 là tích hợp các thành phần RF như bộ khuếch đại, công tắc ăng-ten và bộ lọc, giúp thiết kế phần cứng dễ dàng hơn. Sản xuất bằng công nghệ 40 nm công suất cực thấp của TSMC, ESP32 rất phù hợp cho các ứng dụng chạy bằng pin như thiết bị đeo, thiết bị âm thanh, và đồng hồ thông minh.



**Thông số kỹ thuật**

* Bộ vi xử lý: LX6 32-bit lõi đơn hoặc lõi kép với xung nhịp lên đến 240 MHz.
* Bộ nhớ: 520 KB SRAM, 448 KB ROM, và 16 KB SRAM RTC.
* Wi-Fi: Hỗ trợ kết nối Wi-Fi 802.11 b/g/n với tốc độ lên đến 150 Mbps.
* Bluetooth: Hỗ trợ Bluetooth v4.2 và BLE cổ điển.
* GPIO: 34 GPIO có thể lập trình.
* ADC/DAC: 18 kênh SAR ADC 12 bit và 2 kênh DAC 8 bit.
* Kết nối nối tiếp: 4 x SPI, 2 x I2C, 2 x I2S, 3 x UART.
* Ethernet: Ethernet MAC cho giao tiếp mạng LAN vật lý (yêu cầu PHY bên ngoài).
* SD/SDIO/MMC: 1 bộ điều khiển host cho SD/SDIO/MMC và 1 bộ điều khiển slave cho SDIO/SPI.
* PWM: Động cơ PWM và 16 kênh LED PWM.
* Bảo mật: Khởi động an toàn và mã hóa Flash, tăng tốc phần cứng mật mã cho AES, Hash (SHA-2), RSA, ECC và RNG.
  + 1. ATMEGA328P

ATmega328P là một trong những vi điều khiển công nghệ AVR hiệu suất cao với số lượng chân cắm và tính năng lớn. Được thiết kế bằng công nghệ CMOS 8-bit và CPU RSIC giúp nâng cao hiệu suất và tối ưu mức sử dụng năng lượng nhờ có chế độ ngủ tự động và cảm biến nhiệt độ bên trong. ATmega328P có mạch bảo vệ bên trong và có nhiều cách lập trình giúp các kỹ sư sử dụng linh hoạt ở các tính huống khác nhau. IC hỗ trợ nhiều giao thức giao tiếp hiện đại cho các module khác và chính bộ vi điều khiển, đó là lý do tại sao ATmega328P được sử dụng phổ biến.



**Thông số kỹ thuật của ATmega328P**

* Thiết kế hiệu suất cao
* Tiêu thụ ít điện năng
* Tổng số chân ngõ vào Analog là 6
* Chứa 32 kilobyte bộ nhớ flash
* Chứa 2 kilobyte SRAM
* Chứa 1 kilobyte EEPROM
* Tốc độ xung nhịp 16 megahertz
* Nhiệt độ tối thiểu và tối đa -40 độ C đến 105 độ C.
* Tổng số chân I / O kỹ thuật số là 14 chân
* RISC tiên tiến
* Khóa chức năng chương trình để bảo mật mã lập trình
* Chứa tổng cộng ba bộ định thời, hai 8 bit và một 16 bit
* Tổng số chân I / O là 23 chân
* Tổng số kênh PWM là 6
* Điện áp hoạt động tối thiểu và tối đa từ 1.8V DC đến 5.5V DC
  + 1. Màn hình TFT 2.2 SPI ILT9341

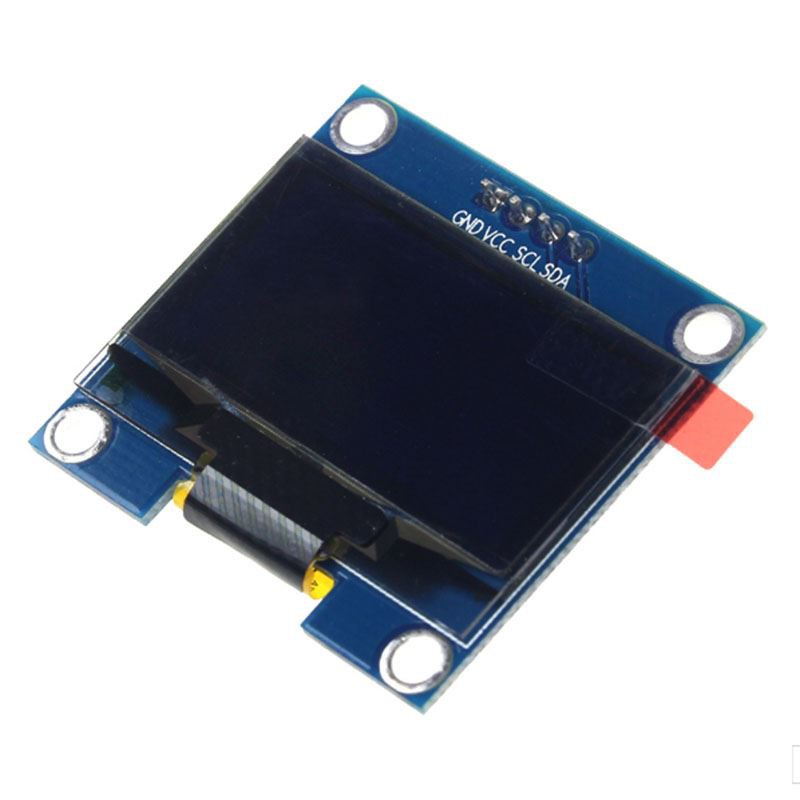
**Màn hình LCD TFT 2.2 Inch 240x320 SPI ILI9341** là một màn hình nhỏ gọn, chất lượng cao, thường được sử dụng trong các dự án IoT, Arduino, và ESP32 nhờ khả năng hiển thị màu sắc sống động và giao tiếp qua SPI, giúp giảm số chân kết nối.



**Thông số kĩ thuật**

* Điện áp hoạt động: 5V/3V3
* Nhiệt độ hoạt động: -20-70°C
* IC điều khiển: ILI9341
* Giao tiếp: SPI
* Mật độ điểm ảnh: QVGA 240x320
* Khả năng hiển thị màu: 262K/65K
* Kích thước màn hình: 2.2 inch
* Kích thước: 67x40mm/2.63x1.57inch
* Trọng lượng: 18.43gram
* Chất liệu: nhựa
* **Màn hình không cảm ứng**
  + 1. Màn hình OLED 1,3 INH

Màn hình Oled 1.3 inch giao tiếp I2C cho khả năng hiển thị đẹp, sang trọng, rõ nét vào ban ngày và khả năng tiết kiệm năng lượng tối đa với mức chi phí phù hợp, màn hình sử dụng giao tiếp I2C cho chất lượng đường truyền ổn định và rất dễ giao tiếp chỉ với 2 chân GPIO.



**Thông tin kỹ thuật:**

* Điện áp sử dụng: 2.2~5.5VDC
* Công suất tiêu thụ: 0.04w
* Góc hiển thị: lớn hơn 160 độ
* Số điểm hiển thị: 128x64 điểm.
* Độ rộng màn hình: 1.3 inch.
* Màu hiển thị: Trắng / Xanh Dương.
* Giao tiếp: I2C
* Driver: SH1106
  + 1. LORA AS32-TTL-100

Module thu phát AS32 - TTL - 100 sử dụng chip Semtech SX1278 của chuẩn LoRaTM không dây, module ngoài sử dụng công nghệ GFSK truyền thống, nó cũng sử dụng công nghệ Lora (long range) chống nhiễu và giảm dòng tiêu thụ .Module hỗ trợ chuẩn giao tiếp UART, độ mạnh tín hiệu phát lớn 100mW, truyền tải được khoảng cách xa mà điện năng tiêu thụ thấp.

Module thu phát AS32-TTL-100 thích hợp cho bất kỳ môi trường ứng dụng phức tạp nào cần truyền tải dữ liệu không dây, chẳng hạn như: điều khiển nhà thông minh, ô tô điện tử, báo động an ninh, giám sát và kiểm soát hệ thống công nghiệp, hệ thống điều khiển từ xa cho các ứng dụng tưới tiêu… Module có thể truyền xa lên đến vài km tùy vào mục đích sử dụng và năng lượng tiêu tốn.

![A close-up of a wireless port

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4SXoRXhpZgAATU0AKgAAAAgAEQEAAAMAAAABCiAAAAEBAAMAAAABBsAAAAECAAMAAAADAAAI5gEGAAMAAAABAAIAAAEPAAIAAAAGAAAI7AEQAAIAAAAPAAAI8gESAAMAAAABAAEAAAEVAAMAAAABAAMAAAEaAAUAAAABAAAJAgEbAAUAAAABAAAJCgEoAAMAAAABAAIAAAExAAIAAAAeAAAJEgEyAAIAAAAUAAAJMAITAAMAAAABAAIAAIdpAAQAAAABAAAJRIglAAQAAAABAAAVCOocAAcAAAgMAAAA2gAAFRwc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAgACENhbm9uAENhbm9uIEVPUyA3MDBEAAAACvyAAAAnEAAK/IAAACcQQWRvYmUgUGhvdG9zaG9wIENTNiAoV2luZG93cykAMjAxNzowODowMiAwMzoyMDoxMwAAJoKaAAUAAAABAAATHoKdAAUAAAABAAATJogiAAMAAAABAAEAAIgnAAMAAAABAGQAAIgwAAMAAAABAAIAAIgyAAQAAAABAAAAZJAAAAcAAAAEMDIzMJADAAIAAAAUAAATLpAEAAIAAAAUAAATQpEBAAcAAAAEAQIDAJIBAAoAAAABAAATVpICAAUAAAABAAATXpIEAAoAAAABAAATZpIHAAMAAAABAAMAAJIJAAMAAAABABAAAJIKAAUAAAABAAATbpKGAAcAAAEIAAATdpKQAAIAAAADOTEAAJKRAAIAAAADOTEAAJKSAAIAAAADOTEAAKAAAAcAAAAEMDEwMKABAAMAAAABAAEAAKACAAQAAAABAAAFFKADAAQAAAABAAAEEKAFAAQAAAABAAAUfqIOAAUAAAABAAAUnqIPAAUAAAABAAAUpqIQAAMAAAABAAIAAKQBAAMAAAABAAAAAKQCAAMAAAABAAEAAKQDAAMAAAABAAAAAKQGAAMAAAABAAAAAKQwAAIAAAABAAAAAKQxAAIAAAANAAAUrqQyAAUAAAAEAAAUvKQ0AAIAAAAdAAAU3KQ1AAIAAAALAAAU+uocAAcAAAgMAAALEgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Thông số kỹ thuật**

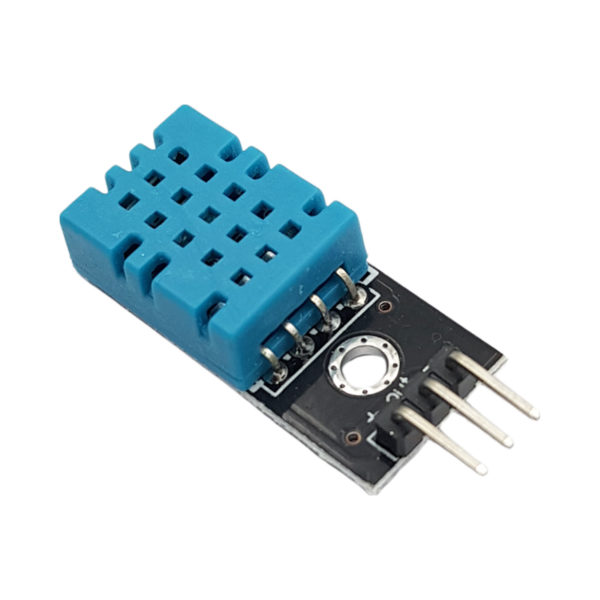
* Kích thước: 20x36mm (không có Aten và đầu nối SMA)
* Tần số hoạt động : 410 - 441MHz, bước 1000KHz, tần số mặc định 433MHz
* Điện áp hoạt động: 2 ~ 5.5 VDC
* Giao tiếp: UART
* Khoảng cách truyền dẫn: khoảng 3000m (ở điều kiện lý tưởng)
* Công suất phát tối đa: 20 dBm (khoảng 100mW), có thể điều chỉnh 4 mức độ (0 - 3), tăng hoặc giảm mỗi khoảng 3dBm.
* Tốc độ truyền trong không khí: 2.4 kbps (mặc định). Có thể cấu hình ở các giá trị: 0.3, 1.2, 2.4, 4.8, 9.6, 19.2 Kbps.
* Dòng nghỉ: 1,5uA (MD1 = 1; MD0 = 1)
* Dòng truyền: 670mA@30dBm
* Dòng nhận: 14.5 mA(Mode 0 or Mode 1) Minium 30mA(Mode 2 + 2s wake up time)
* Giao tiếp: UART
* 512 bộ đệm
* Hỗ trợ RSSI
* Dạng anten: Anten SMA, Anten lò xo.
* Nhiệt độ hoạt động: -40 ~ 85 ͦ C
* Độ ẩm: 10 – 90%
* Nhiệt độ bảo quản: : -40 ~ 125 ͦ C

**Chế độ làm việc**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Chế độ** | **M0** | **M1** | **Mô tả** | **Ghi chú** |
| Mode 0  Normal | 0 | 0 | Giao tiếp UART và kênh truyền không dây hoạt động. Quá trình truyện nhận dữ liệu hoạt động | Bên nhận phải làm việc ở Mode 1 hoặc Mode 2 |
| Mode 1  Wake-up | 0 | 1 | Giao tiếp UART và kênh truyền không dây hoạt động. Khác với Mode 0, ở Mode 1 có thêm 1 đoạn mã hóa tự động ban đầu trước khi dữ liệu được truyền đi nên nó có thể thông báo bên nhận làm việc ở chế độ 2. | Bên nhận có thể làm việc Mode 0, Mode 1, hoặc Mode 2 |
| Mode 2  Power Saving | 1 | 0 | UART không hoạt động, Module không dây làm việc ở chế độ WOR (Work on Radio). Thiết bị sẽ mở UART và truyền dữ liệu sau khi nhận được thông tin đánh thức | Bên truyền phải làm việc ở chế độ 1, không làm việc ở chế độ này. |
| Mode 3  Sleep | 1 | 1 | Cài đặt thông số. |  |

* + 1. MODULE DHT11

[Cảm biến độ ẩm nhiệt độ DHT11](https://nshopvn.com/product/module-cam-bien-do-am-nhiet-do-dht11/) ra chân được tích hợp sẵn điện trở 5,1k giúp người dùng dễ dàng kết nối và sử dụng hơn so với cảm biến DHT11 chưa ra chân, module lấy dữ liệu thông qua giao tiếp 1 wire (giao tiếp 1 dây). Bộ tiền xử lý tín hiệu tích hợp trong [cảm biến](https://nshopvn.com/category/cam-bien/) giúp bạn có được dữ liệu chính xác mà không cần phải qua bất kỳ tính toán nào. Module được thiết kế hoạt động ở mức điện áp 5VDC.



THÔNG SỐ KỸ THUẬT

* Điện áp hoạt động: 5VDC
* Chuẩn giao tiếp: TTL, 1 wire.
* Khoảng đo độ ẩm: 20%-80%RH sai số ± 5%RH
* Khoảng đo nhiệt độ: 0-50°C sai số ± 2°C
* Tần số lấy mẫu tối đa 1Hz (1 giây / lần)
* Kích thước: 28mm x 12mm x10m
  1. PHẦN MỀM ỨNG DỤNG
     1. Ngôn ngữ lập trình C
     2. Trình biên dịch IDE
     3. Phần mềm thiết kế mạch Altium Designer
     4. Nền tảng Arduino Cloud

1. THI CÔNG VÀ THIẾT KẾ PHẦN CỨNG
   1. SƠ ĐỒ KHỐI TỔNG QUÁT
      1. Nguyên lý hoạt động của hệ thống
   2. THIẾT KẾ PHẦN CỨNG
      1. Sơ đồ nguyên lý

A diagram of electrical wiring

Description automatically generated

A diagram of electrical wiring

Description automatically generated

* + 1. Thi công mô hình

A red circuit board with blue and red lines

Description automatically generated

A computer chip with a black pipe

Description automatically generated

A blue circuit board with many wires and a yellow and red dot

Description automatically generated with medium confidence

A close-up of a circuit board

Description automatically generated

* 1. SẢN PHẨM PHẦN CỨNG