



Features

- Connect Serial devices to SubG/WiFi/Ethernet network
- 1 x RS-485 Port
- 1 x CAN port
- 1 x 10/100Mbps Ethernet Port
- 1 x WLAN Port: 2.4GHz, IEEE802.11b/g/n
- 1 x Wifi external antenna through SMA connector
- 1 x SubG Module build-in, support UART command
- 1 x SubG external antenna through SMA connector
- Firmware upgradable
- +9~48VDC Power-in

H/W Specifications

CPU / Memory

- CPU : ESP32-WROOM-32U, Xtensa® Dual-core 32-bit microprocessor
- Frequency: 240MHz
- Memory: 448KB ROM, 520KB SRAM, 16KB SRAM in RTC

WLAN (Wi-Fi) Interface

- Frequency: 2.4GHz Single band
- Protocol: IEEE 802.11b/g/n, 802.11n: Up to 150Mbps A-MPDU and A-MSDU aggregation and 0.4us guard interval support
- Certification: Wifi Alliance, FCC/CE, Worldwide Domain
- Support the Basic Service Set (BSS) STA and SoftAP operations under the Distributed Control Function (DCF).
- Antenna: reserved SMA connector on ESP32 module

Ethernet Interface

- Type: 1 x 10/100Mbps Ethernet, RJ45 connector
- Protection: 1.5KV magnetic isolation

Console Port

- 1 x Serial Console port (for EXP32), 4pin box header
- 1 x Setting console port (for SubG), micro-USB connector

TTY (Serial) Port

- Type: 1 x RS-485
- Connector: Terminal block
- Signal: Data+, Data-
- Direction control: Auto, by software

CAN Bus Port

- Type: 1 x CAN bus 2.0 A/B compliant port
- Connector: Terminal block
- Signal: CAN_H, CAN_L
- Speed: Up to 1Mbps
- Isolation: 2500Vrms

SubG Interface

- Frequency: 923MHz (920.5-924.5MHz Adjustment) ISM band
- PA output power: 17dBm
- Bitrate: 100kbps
- Payload: 80byte/sec Max.
- UART command support
- Antenna: reserved SMA connectors (1T1R) on board
- Support End Device/Gateway/Repeater mode

General

- Power Input: 9~48VDC (Terminal Block)
- Operating Temperature: 0~70°C, 5~95% RH
- Dimensions (W x H x D): 108x78x24mm (3.0x4.25x0.94in)
- DIP Switch for setting: RS485/CAN termination resistor, GPIO & SubG setting
- LED Indicator: Power, Ready, Serial Port, LAN, Wifi
- Installation: Wall mounting, DIN-Rail mounting (with optional kit)

S/ W Specifications

System Programming

- Arduino_based Programmable IoT Gateway or C-Programmable IoT gateway

Software Development

- Arduino or Espressif IDE Development Framework

Ordering Information

- **Aport-315**
Serial Port to SubG/WiFi/Ethernet IoT Gateway
- **CB-RJ2CON-100 (91-RJCON-100)**
Console Cable (RJ45 to DB9 Female, 100cm)
- **DK-35A (36-DK35A-000)**
DIN RAIL Mounting Kit
- **PWR-12V-1A (31-62100-000)**
110~240VAC to 12VDC 1A Power Adapter