



H/W Specifications

WLAN Interface

- Port: 1
- Connectivity: 2.4GHz, IEEE 802.11b/g/n
- Data Rate: (IEEE 802.11b) 1 to 11Mbps
(IEEE 802.11g) 6 to 54Mbps
(IEEE 802.11n) 7.2 to 150Mbps
- Frequency: USA (FCC), Europe(ETSI), Worldwide Domain
- Protocol support: TCP, UDP, ICMP, IGMP, IPv4, DHCP, ARP, DNS, SMTP, Sntp, RFC2217 and HTTP in Software
- Security: WEP-64/128, WPA, WPA2
- RF Receiver Max Receive Level: 802.11b DSSS/-4dBm, 802.11b CCK/-10dBm 802.11g OFDM/-20dBm, 802.11n/-20dBm
- Receive Sensitivity:
 - 802.11b: -80dBm @ 1 Mbps; -80dBm @ 2 Mbps; -79dBm @ 5.5 Mbps; -76dBm @ 11 Mbps
 - 802.11g: -82dBm @ 6 Mbps; -81dBm @ 9 Mbps; -79dBm @ 12 Mbps; -77dBm @ 18 Mbps; -74dBm @ 24 Mbps; -70dBm @ 36 Mbps; -66dBm @ 48 Mbps; -65dBm @ 54 Mbps
 - 802.11n (20MHz): -82dBm @ MCS0; -79dBm @ MCS1; -77dBm @ MCS2; -74dBm @ MCS3; -70dBm @ MCS4; -66dBm @ MCS5; -65dBm @ MCS6; -64dBm @ MCS7
 - 802.11n (40MHz): -79dBm @ MCS0; -76dBm @ MCS1; -74dBm @ MCS2; -71dBm @ MCS3; -67dBm @ MCS4; -63dBm @ MCS5; -62dBm @ MCS6; -61dBm @ MCS7

Serial Interface

- Type: RS-232 / 422 / 485, switch selectable
- Connector: DB9, male
- Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
- Baud Rate: 1.2~38.4Kbps
- Parity: None, Even, Odd
- Data Bits: 7, 8
- Stop Bits: 1, 2
- Flow Control: None, RTS / CTS, XON / OFF

Switch

- 1 x Reset Button
- 1 x WPS (Wifi Protected Setup) Button
- 1 x Restore to Default Button
- x four-pin dip switch for Serial interface setting

Configuration Methods

- Web console and Serial Console
- Windows application Utility

Features

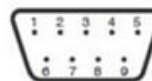
- Connect RS-232/422/485 devices to IEEE 802.11b/g/n network
- 921.6Kbps baudrate for RS-232/422/485 transmission
- Radio frequency support FCC/ETSI/worldwide domain
- Modbus RTU to Modbus / TCP Gateway
- Supports TCP / Server mode and TCP / Client mode
- Secure data access with WEP-64/128, WPA, WPA2
- Windows application Utility
- Web / Serial consoles for device configuration
- Firmware upgradable
- 1 x Wifi external antenna through SMA connector

General

- Power Input: 9~48VDC (Terminal Block / Micro-USB power source)
- Power Consumption : 180mA@+12VDC
- Operating Temperature: 0~70°C, 5~95% RH
- RF output power: 802.11b: 16 ±2dBm; 802.11g: 14 ± 2dBm; 802.11n: 13 ± 2dBmH
- Dimensions (W x H x D): 78 x 108 x 25mm
- Weight: 300g
- Regulation: CE / FCC compliant
- Buzzer: YES
- LED Indicator: Power, Status, COM, Serial Console

PIN Assignment

Serial Interface (D-Sub / Male)



PIN	RS-232	RS-422	RS-485
1	--	TX-	--
2	RXD	TX+	--
3	TXD	RX-	D+
4	--	RX+	D-
5	GND	GND	GND
6	--	--	--
7	RTS	--	--
8	CTS	--	--
9	--	--	--

Serial Console (D-Sub / Female)



PIN	Console
1	--
2	TX
3	RX
4	--
5	GND
6	--
7	--
8	--
9	--

Ordering Information

- **Aport-213**
Single-port Serial-to-WiFi Gateway
- **DK-35A**
DIN RAIL Mounting Kit
- **PWR-12V-1A**
110~240VAC to 12VDC 1A Power Adapter
- **SW-200M**
Serial-to-wifi Module