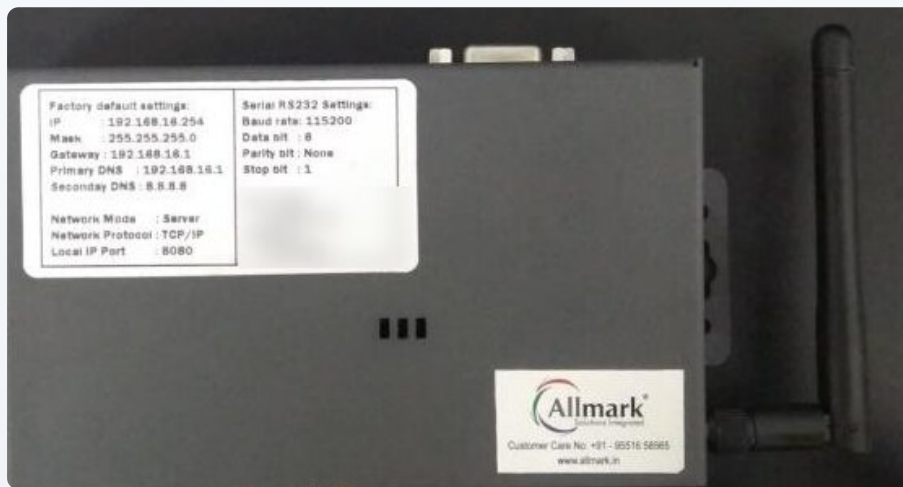


INDUSTRIAL IOT · SERIAL DEVICE SERVER

Serial to Ethernet / Wi-Fi Converter

Model AS2EW · 230 V AC mains



The AS2EW converter with the external Wi-Fi antenna fitted. The Wi-Fi details on the unit's label are hidden in this picture.

CONNECTS

RS-232 to Ethernet and Wi-Fi

SERIAL SPEED

1,200 to 500,000 bps

NETWORK

10/100 Mbps · 802.11b/g/n

POWER

230 V AC, max 400 mA

OPERATING RANGE

-20 °C to 70 °C

WARRANTY

1 year

- 1 What the converter does
- 2 Where it is used
- 3 Features
- 4 Connections and indicators
- 5 Serial port pin assignment
- 6 Specifications
- 7 Network set-ups
- 8 Factory settings and configuration
- 9 Ordering, warranty and support

1 What the converter does

The AS2EW links an RS-232 serial device to your Ethernet or Wi-Fi network. The serial device keeps its own configuration: data passes both ways between its RS-232 port and the network.

It gives a serial device a network interface, so a barcode scanner, printer, weighing scale or PLC that has only an RS-232 port can send and receive its data over Ethernet or Wi-Fi instead of a serial cable.

2 Where it is used

- Barcode scanners
- Barcode printers and Wi-Fi printing
- POS thermal receipt printers
- Electronic weighing scales
- PLC machines and industrial systems
- RFID data transfer
- Home and commercial building automation

3 Features

Wi-Fi

- 2.4 GHz, IEEE 802.11b/g/n
- Client, access point or router mode
- WEP 64/128/152-bit, TKIP, AES, WPA-PSK and WPA2-PSK security

Ethernet

- Data (WAN) and configuration (LAN) RJ45 ports
- PPPoE, TCP, UDP, DDNS, DHCP, DNS and HTTP
- Serial to Ethernet and serial to Wi-Fi in one unit

Serial

- RS-232 baud rates from 1,200 to 500,000 bps
- DE9 male and DE9 female connectors
- +5 V DC on pin 9 to power the connected device, available on request

Configuration

- AT+ instruction set
- Configure over the serial port or a web page
- Windows configuration and device-discovery tool

4 Connections and indicators

Where	What	Use
Front	DE9 male connector	RS-232 serial device
Front	WAN RJ45 port	Data: connects the converter to your network
Front	LAN RJ45 port	Configuration
Front	Reset switch	Ask our support team before using it
Rear	DE9 female connector	RS-232 serial device
Top	PWR, LINK and DATA indicators	Power, network link and data activity
Housing	Antenna connector	External Wi-Fi antenna

Dimensions: 135 × 83 × 34 mm without the mounting ears, 160 × 83 × 34 mm with them (length × width × height).

5 Serial port pin assignment

DE9 female port

Pin	RS-232
1	Not connected
2	TXD
3	RXD
4	Not connected
5	GND
6	Not connected
7	Not connected
8	Not connected
9	+5 V DC supply*

DE9 male port

Pin	RS-232
1	Not connected
2	RXD
3	TXD
4	Not connected
5	GND
6	Not connected
7	Not connected
8	Not connected
9	+5 V DC supply*

* **Pin 9** supplies +5 V DC (±5%) to the connected device, such as a scanner. This port-power option is available on request: name the device when you order.

Flow control: XON/XOFF. The pin tables above show TXD, RXD and GND (and +5 V on pin 9 on request). If your device needs RTS/CTS or DTR/DSR handshaking, tell us before you order.

6 Specifications

Ethernet interface

Ports	1 data (WAN) and 1 configuration (LAN)
Standard	IEEE 802.3, IEEE 802.3u
Speed	10/100 Mbps
Connector	8-pin RJ45
TCP connections	More than 20
UDP connections	More than 20

Wi-Fi interface

Standard	IEEE 802.11b, 802.11g, 802.11n
Mode	Client, access point or router
Bridging and filtering	WDS wireless bridge; wireless MAC address filtering
Speed	802.11n up to 150 Mbps; 802.11g up to 54 Mbps; 802.11b up to 11 Mbps
Security	WEP 64/128/152-bit; WPA-PSK and WPA2-PSK; TKIP and AES
Frequency	2.4 to 2.4835 GHz
Transmit power	12 to 15 dBm
Channel bandwidth	20 MHz, 40 MHz or automatic
Antenna	Onboard or external

Serial interface

Ports	1 RS-232 port
Connectors	1 DE9 male and 1 DE9 female
Signals	TXD, RXD, GND; +5 V DC on pin 9 on request
Baud rate	1,200 to 500,000 bps
Default	115,200 bps, 8 data bits, no parity, 1 stop bit
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
Parity	None, even, odd, space, mark
Flow control	XON/XOFF

Power, size and environment

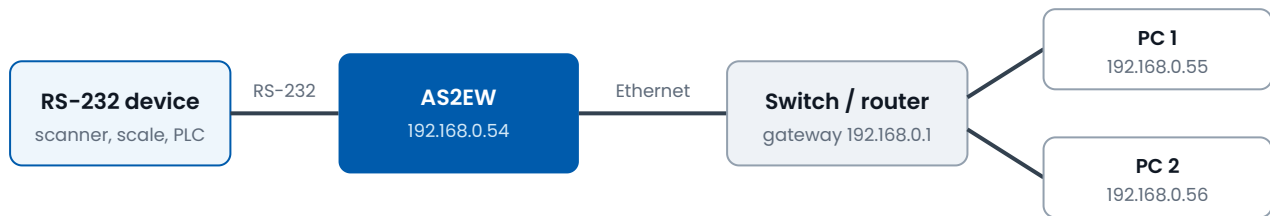
Input	230 V AC mains
Input current	400 mA maximum
Housing	Metal
Size	135 × 83 × 34 mm; 160 mm long with the mounting ears
Weight	340 g
Operating temperature	-20 °C to 70 °C
Storage temperature	-40 °C to 80 °C
Operating humidity	10% to 90% RH, non-condensing
Storage humidity	5% to 90% RH, non-condensing
Warranty	1 year, manufacturer's warranty

7 Network set-ups

The same three set-ups work for a barcode scanner, a printer, a weighing scale or a PLC. The IP addresses are examples.

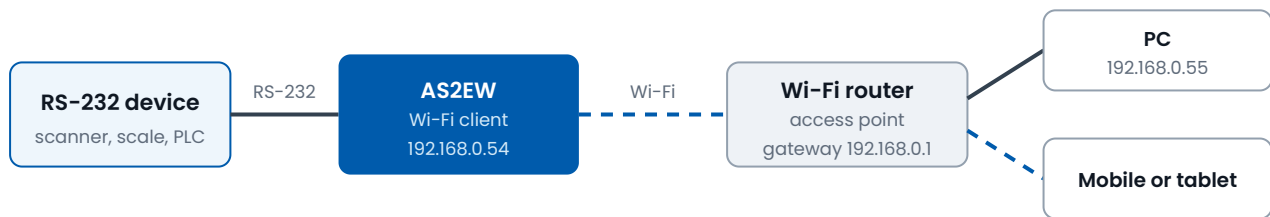
A. Serial to Ethernet (server)

The converter joins your wired network; any PC on the network reads the device at the converter's IP address and port.



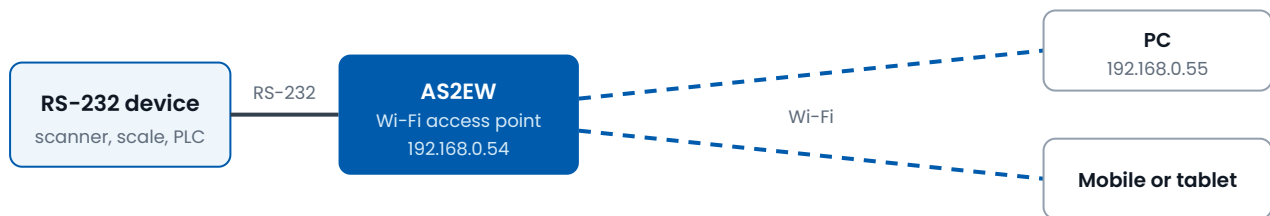
B. Serial to Wi-Fi (client)

The converter joins your Wi-Fi router as a client; PCs and mobile devices on that network read the device.



C. Serial to Wi-Fi (access point)

The converter creates its own Wi-Fi network; a PC or mobile device connects to it directly, with no router.



8 Factory settings and configuration

Network (factory settings)

IP address	192.168.16.254
Subnet mask	255.255.255.0
Gateway	192.168.16.1
Primary DNS	192.168.16.1
Secondary DNS	8.8.8.8
Network mode	Server
Protocol	TCP/IP
Local IP port	8080

Serial (factory settings)

Baud rate	115,200 bps
Data bits	8
Parity	None
Stop bits	1

Wi-Fi name and password. The factory Wi-Fi network name and password are printed on the label on the unit. Keep the label details private: we set your own Wi-Fi details at installation.

Ways to configure the converter

- AT+ instruction set over the serial port
- The converter's web page
- The Windows configuration tool, which also finds converters on your network

Set up by Allmark. We install the converter at your site, set it to match your device's serial settings and your network, and train your team. Tell us the device and its serial settings when you ask for a quote.

Reading scans into Windows software. Allmark's Ethernet into Virtual HID app takes the data the converter sends to an IP address and port and types it into Notepad or your billing software as keyboard entry.

9 Ordering, warranty and support

Model	Description
AS2EW	1-port RS-232 device server, Ethernet and Wi-Fi, 230 V AC mains
Optional accessory	External Wi-Fi antenna

Warranty: 1 year, manufacturer's warranty. We confirm the configuration and what is supplied in your quotation.

Sales and quotations

+91 98412 07861 · +91 95516 58565

WhatsApp +91 94999 45457

sales@allmark.in

Service and support

+91 99627 68550 · +91 95516 58525

support@allmark.in

www.allmark.in

Allmark Device Integrations Pvt Ltd · CIN U31908TN2014PTC095989 · Registered office: #9/2, Fourth Cross Street, Ashoka Avenue, Periyar Nagar, Chennai – 600082, Tamil Nadu, India.

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