# ER505

## Enterprise Router

The Wavetel ER505 combines four Gigabit Ethernet ports, dual-band Wi-Fi 6 AX1800, serial ports and abundant I/O ports for wired and wireless enterprise networks. Its compact aluminium enclosure, VPN support, flexible routing and remote management make it suitable for connecting Ethernet, serial and I/O equipment in industrial and IoT applications.

Wi-Fi 6 AX1800

4 × GE + Serial + I/O

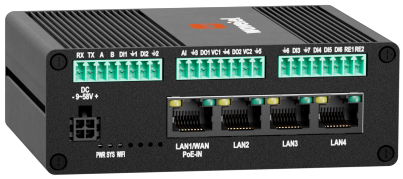
VPN

Active PoE PD

## Key features

- 4 × Gigabit Ethernet ports
- Wi-Fi 6 AX1800 (2.4 & 5 GHz)
- RS232, RS485, 7×DI, 2×DO, AI, Relay
- Active PoE PD
- VPN: IPsec, OpenVPN, WireGuard
- BGP, OSPF, RIP, NHRP, VRRP
- MQTT and Modbus TCP
- Web GUI, SSH, TR-069, SNMP, RMS



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# Specifications

## Hardware

| | |
|---|---|
| Ethernet | 4 x 10/100/1000 Mbps Ethernet |
| Wi-Fi | Wi-Fi 6 AX1800; IEEE 802.11a/b/g/n/ac/ax<br>2.4 GHz and 5 GHz; 2 x 2 MIMO |
| Serial Port | 1 × RS232 + 1 × RS485 |
| I/O | 7 × DI + 2 × DO + 1 × AI + 1 × Relay |
| PoE | Active PoE PD on one Ethernet port |
| Wi-Fi antenna | 2 x RP-SMA Wi-Fi antenna connectors |
| Status indicators | Power, System, Wi-Fi |
| Power input | 4-pin Molex connector |
| Reset button | 1 |
| Grounding | 1 grounding point |
| Housing | Aluminium |
| Ingress protection | IP30 |
| Dimensions | 114 x 88 x 40 mm |
| Operating temperature | -40 to +75 ° C |
| Operating humidity | 10% to 90%, non-condensing |
| Installation | Desktop, wall mounting, DIN-rail mounting |

## Software

| | |
|---|---|
| Network | Ethernet WAN / LAN; PPPoE; DHCP; NAT; VLAN |
| Protocols | TCP, UDP, DNS, NTP, SMTP, Telnet, ICMP<br>HTTP, HTTPS, TLS, ARP, SSH2, DDNS |
| Wi-Fi | AX1800; 20 / 40 / 80 MHz channel bandwidth; up to 48 users<br>WEP, WPA-PSK, WPA2-PSK, WPA3; AES / TKIP |
| VPN | PPTP, L2TP, IPsec, GRE, OpenVPN, WireGuard |
| MQTT | MQTT broker and publisher |
| Modbus TCP | Server and client modes over TCP |
| Routing | Static route, policy route, BGP, OSPF, RIP, NHRP, VRRP |
| Security | Firewall, DMZ, anti-DDoS, website filtering, access control, IEEE 802.1X |
| Device management | Web GUI, SSH, TR-069, SNMP, RMS |

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