



Nebula FWA515

5G BE7200 Indoor Router

Reliable 5G Connectivity. Cloud-Managed Simplicity

Experience ultra-fast 5G and WiFi 7 with seamless, centralized control through Nebula. Perfect for remote teams, retail spaces, or branch offices — no cabling, no complexity. Plug in. Power on. Stay connected.

Benefits

Performance that keeps up with business

FWA515 supports **up to 7 Gbps 5G** and **7.2 Gbps WiFi 7 (BE7200)** with Multi-Link Operation — delivering consistent speed across video calls, cloud workflows, and collaborative tools. Supports up to **64 device** environments, such as hybrid offices, prosumer studios, or retail setups.

- Full 2.5GbE LAN (Multi-Gig) ports
- WiFi 7 (BE7200) with 4x4 + 4x4 MIMO, supports MLO
- Low-latency dual-band performance



5G NR with up to 7 Gbps* download rate



BE7200 WiFi 7 speeds up to 7.2 Gbps*



2.4/5GHz dual concurrent WiFi sharing with up to 64 devices



Nebula cloud app for easy set up & management



Full 2.5GbE LAN ports



Connection failover between both WAN interfaces



Made with 95% recycled plastic and shipped in low-impact packaging

5G

Up to **7 Gbps**

4G LTE up to 1.6 Gbps



WiFi 7

Up to **7,200 Mbps**

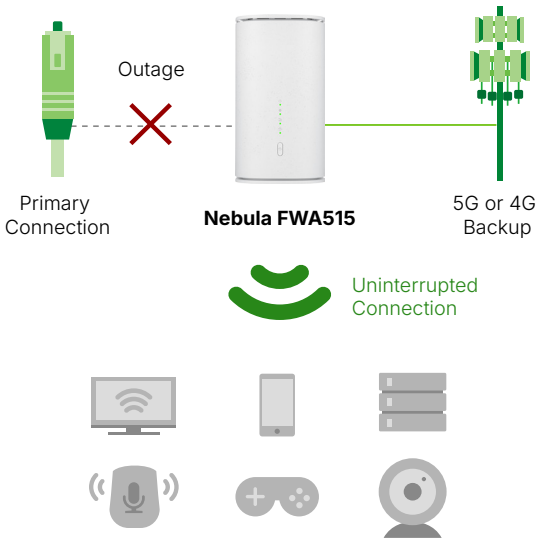
5 GHz ≈ 5,800 Mbps

2.4 GHz ≈ 1,400 Mbps

No cabling. No waiting. Just power it on

Get connected in minutes with plug-and-play 5G — no cabling, no delays. Just insert a SIM card, power it on, and you're online.

FWA515 also features Dual WAN with automatic failover: if your 5G connection drops, it switches to Ethernet; if your broadband fails, it backs you up with 5G.



More than a device — part of your network

FWA515 is part of the Zyxel Nebula ecosystem, letting you onboard, monitor, and manage it alongside other Nebula devices — all from a single cloud dashboard or mobile app.

- Easy setup with QR code
- Remote configuration
- Client device heartbeat
- Live status & power tracking
- Multi-site cloud management
- Smart alerts for network issues



Built to reduce waste. Engineered to save energy

Made from 95% recycled plastic and shipped in halogen-free, VOC-free packaging, FWA515 meets sustainability standards without compromising performance.**

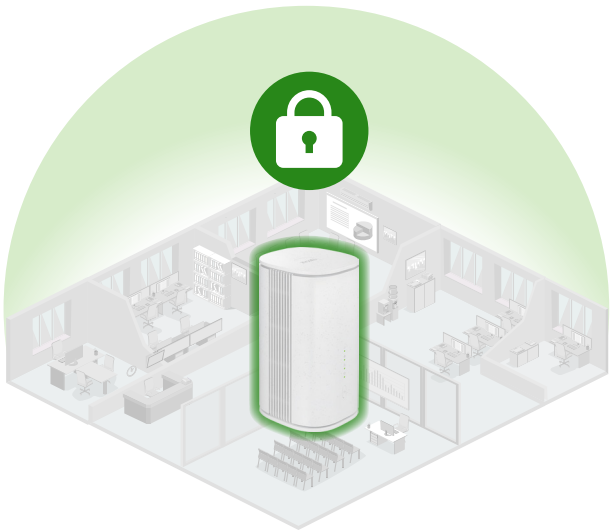
- USB-C PD input (45W)
- No PE bag, minimal packaging waste



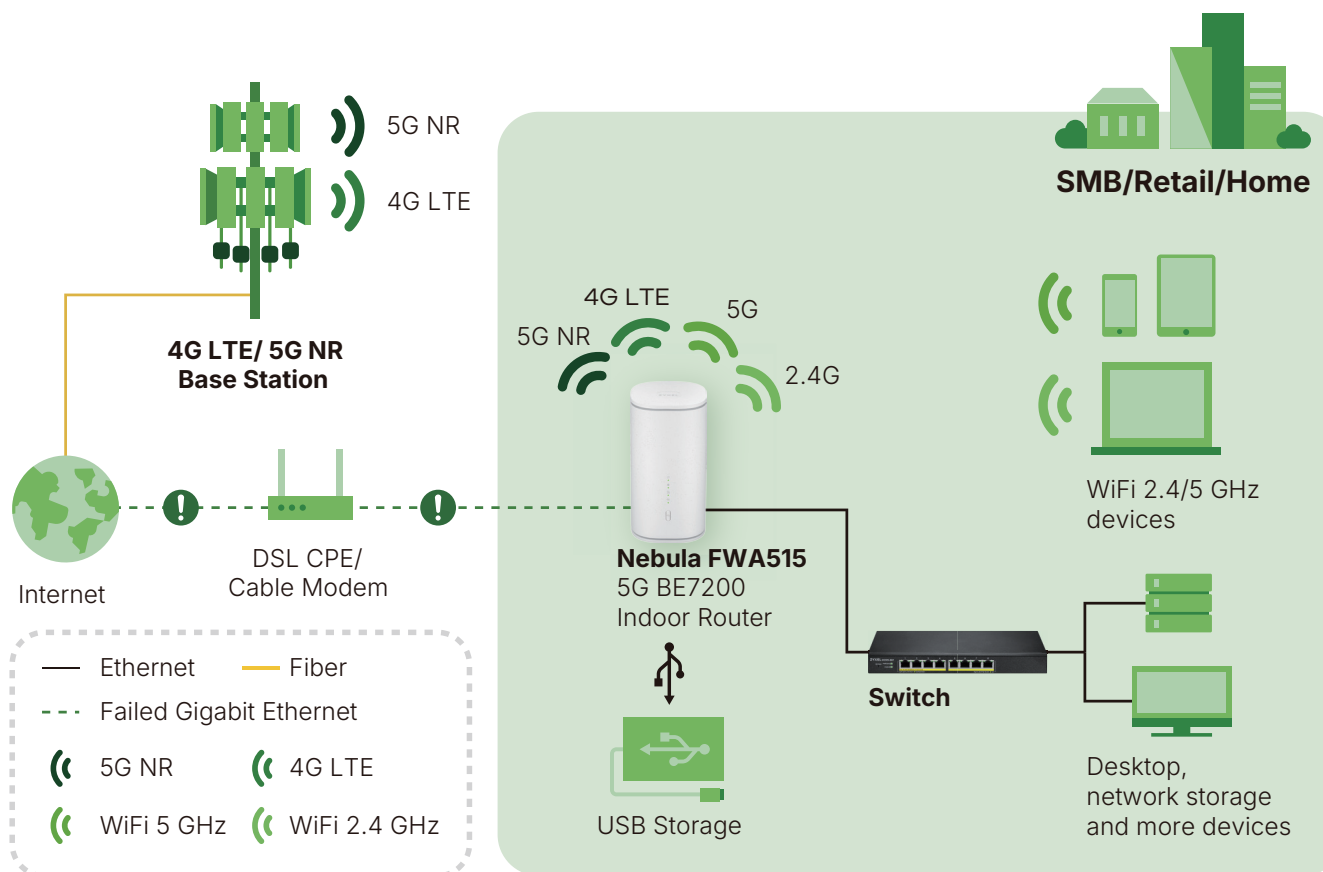
Built-in protection from day one

FWA515 keeps your network protected without complicated setup or subscriptions — essential for businesses with limited IT support.

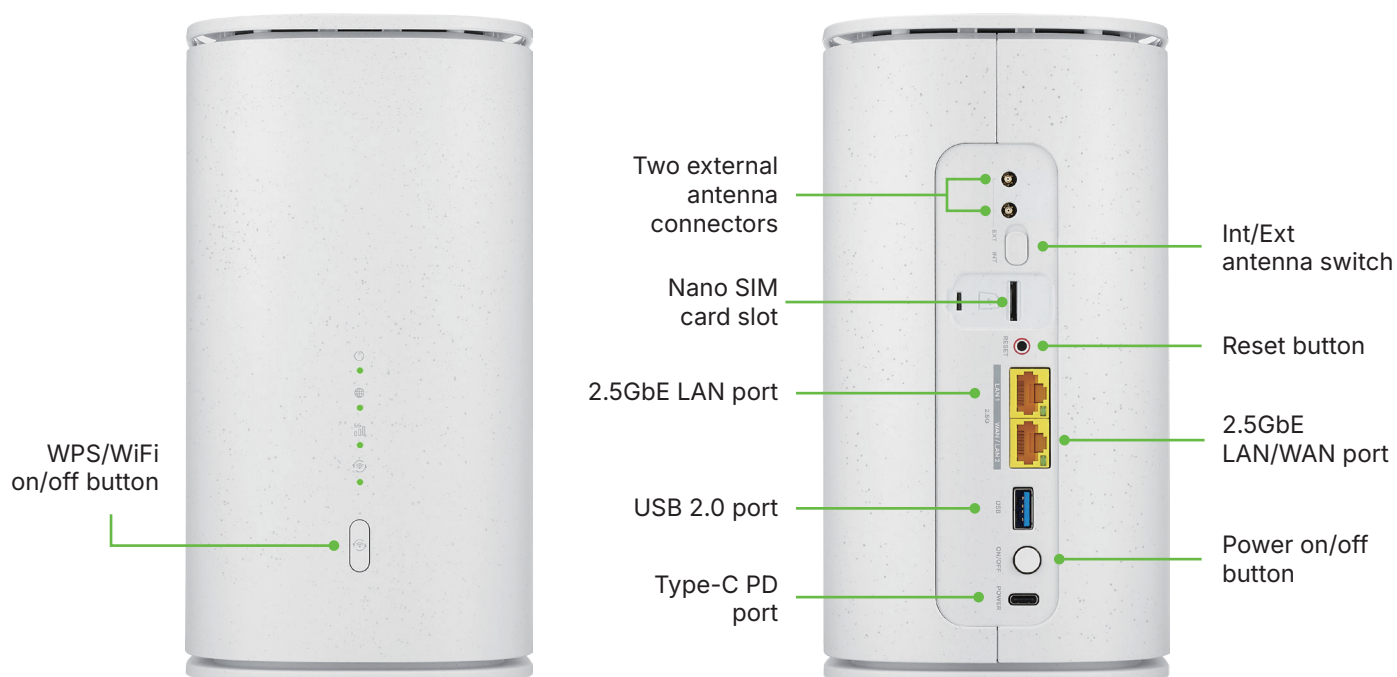
- WPA2/WPA3 encryption
- DoS protection, SPI firewall
- MAC/IP filtering and VLAN support
- Guest WiFi & multi-SSID options



Application Diagram



Interface Description



Specifications

System specifications

IP networking

- Supports IPv4/IPv6 dual stack (NDP IPv6)
- DHCP Client/server
- Virtual Private Network (VPN) pass-through
- Supports NAT/NAPT
- Supports DMZ
- Multiple APNs
- Supports port forwarding

Routing

- Supports IP passthrough and router modes
- Supports cloud management mode under IP passthrough mode
- Static/dynamic route setting

IP firewall

- DoS attack detection
- Supports SPI
- Application-level firewall (LAN to WAN such as FTP, HTTP, Telnet, Ping)
- Filters LAN MAC address
- Filters LAN IP address

Management

- Supports power monitoring & energy saving
- Supports local/remote device management and firmware upgrade via Nebula Cloud and web GUI
- PIN/PUK management
- APN management
- Operating frequency band selection CLI/SSH (local and remote SSH access)
- Supports UPnP IGD
- Supports web server API to support APPs
- Supports Zyxel One (iOS and Android) for easy installation and local management

WLAN feature

- Auto channel selection
- WiFi Protected Setup (WPS)
- WiFi Multimedia (WMM)
- WiFi-enabled devices: up to 64
- Security: WPA2-PSK, WPA3-SAE, WPA2-PSK/WPA3-SAE
- MAC address filtering with 64 addresses supported
- Multiple SSIDs/hide SSIDs
- WLAN scheduling

Hardware specifications

5G NR interface

- 3GPP Release 16 standard-compliant
- Supports both NSA and SA modes
 - FDD: n1/n3/n7/n8/n20/n28
 - TDD: n38/n40/n41/n75/n77/n78
- Supports DL 4×4 MIMO: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
- Data rates:
 - 5G SA: DL 7.01 Gbps; UL 2.5 Gbps*
 - 5G NSA: DL 5.67 Gbps; UL 1.46 Gbps*
- Supports DL modulation QPSK, 16-QAM, 64-QAM, and 256-QAM
- Supports UL modulation QPSK, 16-QAM, 64-QAM, and 256-QAM
- Output power:
 - Class 1.5: 29 dBm +2/-3 dBm for n41/n77/n78
 - Class 2: 26 dBm +2/-3 dBm for n41/n77/n78
 - Class 3: 23 dBm ±2 dBm all other 5G NR bands

4G LTE interface

- 3GPP Release 16 standard-compliant
- Supports frequencies:
 - FDD: B1/B3/B5/B7/B8/B20/B28/B32
 - TDD: B38/B40/B41/B42/B43
- Supports DL 4×4 MIMO: B1/B3/B5/B7/B8/B20/B28/B38/B40/B41/B42/B43
- Peak data rates:
 - Max. DL 1.6 Gbps/UL 211 Mbps*
- Supports DL modulation QPSK, 16-QAM, 64-QAM, and 256-QAM
- Supports UL modulation QPSK, 16-QAM, 64-QAM, and 256-QAM
- Output power:
 - Class 3: 23 dBm ±2 dBm all other LTE bands
 - Class 2: 26 dBm +2/-3 dBm for B41

WiFi air Interface

- Wireless standard: IEEE 802.11b/g/n/a/ac/ax/be
- Wireless speeds:
 - Link rates up to 7,200 Mbps* for 802.11be DBDC
- Internal WiFi antenna:
 - Dual-band & concurrent 4×4 + 4×4
- WiFi antenna gain:
 - ≤ 3 dBi for 2.4 GHz
 - ≤ 4 dBi for 5 GHz

5G/4G antennas

- Four embedded omni-directional antennas
- Antenna spec (Peak gain)
 - 700 MHz ~ 960 MHz: ≤3 dBi
 - 1.4 GHz ~ 2.7 GHz: 6 dBi
 - 3.3 GHz ~ 4.2 GHz: 7 dBi

Hardware interface

- Two 100/1000/2500 Mbps Ethernet RJ-45 LAN ports, LAN2 can be configured for Ethernet WAN port
- LED indicators:
 - Power indication
 - Signal strength
 - Internet connection status
 - WiFi/WPS status
- One 4FF Nano SIM card slot with push-push type SIM tray
- One power on/off button
- One WPS/WiFi on/off button
- One reset button
- Two external antenna connectors (TS9 type)
- One Int/Ext antenna switch
- One USB 2.0 Type-A host port for file sharing
- One Type-C PD port

Specifications

Power consumption

- 48 W (peak)

Physical specifications

- Item dimensions (WxDxH):
117 × 130 × 217 mm
(4.60" × 5.12" × 8.54")
- Item weight: 1082 g (2.39 lb.)
- Packing dimensions (WxDxH):
126 × 154 × 287 mm
(4.96" × 6.06" × 11.30")
- Packing weight: 1648 g (2.63 lb.)

Environmental specifications

Operating environment

- Temperature: -10°C to 40°C
(14°F to 104°F)
- Humidity: 0% to 90% RH
(non-condensing)

Storage environment

- Temperature: -30°C to 70°C
(-22°F to 158°F)
- Humidity: 0% to 95%
(non-condensing)

Certification

- CE
- UKCA

Package contents

- Type-C PD 45 W power adaptor
- Ethernet cable 1.5 m 8P8C
- Warranty card

* The maximum data rate is a theoretical value.
The actual data rates depend on the network environment.

** 5% additives and solvents are necessary to be added to the recycled polymers to achieve the desired technical characteristics of the material.

Nebula FWA515 License Pack



Nebula provides flexible options to meet your needs, offering complimentary, enhanced, and advanced cloud networking solutions. Your chosen plan determines the level of service you receive from Nebula Cloud.

Feature Name	Base Pack	Plus Pack	Pro Pack
Unlimited Registration & Central Management (Configuration, Monitoring, Dashboard, Location Map & Floor Plan Visual) of Nebula Devices	•	•	•
Over-the-air Firmware Management	•	•	•
Admin Accounts per Organization (Full Access for Administration Rights)	5	8	Unlimited
Advanced Firmware Scheduling (Org/Site/Device)		•	•
Automatic Network Topology (Visual and Actionable)		•	•
Email users and alert Notifications		•	•
Organizational User Audit / Change Logs			•
Backup/Restore Configuration			•
Priority Nebula Support Request (Direct NCC incl. Web Chat)			•

* Search "Nebula Control Center" ([https://www.zyxel.com/products_services/NCC-Nebula Control-Center/subscribe-nebula](https://www.zyxel.com/products_services/NCC-Nebula%20Control-Center/subscribe-nebula)) for more Nebula license plan.

Nebula Mobile App



Success Story



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