



NR2101









5G NR Portable Router

The Zyxel NR2101 5G NR Portable Router supports the latest 5G NR technology and at the same time remaining full compatibility with 4G/3G networks. The NR2101 delivers high-capacity, premium broadband services through a high-end WiFi 6 interface with high-speed connectivity, enhanced network security, compact design that allows your subscribers to stay connected wherever they go.

Benefits

Lightning-fast internet connectivity

The Zyxel NR2101 has 5G NR DL speeds of up to 4 Gbps* and 4G LTE DL speeds of up to 2 Gbps*. The wide spectrum bandwidth accelerates internet speeds and reduces network latency for premium and time-sensitive connectivity services. With the high-speed 5G NR service you are able to fulfil the worldwide market requirements of mobile broadband access services.

-  3GPP Rel. 15 5G NR, up to 4 Gbps/650 Mbps (DL/UL) with the support of NSA & SA mode
-  WiFi 6 (11ax) for superior performance and coverage
-  One GbE LAN port
-  One USB 3.1 type C gen 2 port
-  Quick charge 2.0 to deliver lightning-fast charging
-  Long-lasting battery with up to 10 working hours
-  2.4" touch screen
-  FOTA Remote firmware upgrade

AX1800 technology for superior performance and coverage

Compliant with the latest WiFi 6 (11ax) standard, the Zyxel NR2101 offers speeds of up to 1.8 Gbps with 2x2 UL/DL MU-MIMO. The uplink MU-MIMO, Orthogonal Frequency Division Multiple Access (OFDMA) and beamforming technologies empower the NR2101 to deliver premium speed for multi-streaming data access and optimal WiFi experience without dead zones.

Easy configuration with touch screen

Intuitive user-friendly interface with touch screen eases the configuration process and increases customer-satisfaction level.

Specifications

System specifications

IP networking

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

IP firewall

- Firewall can be enabled or disabled via GUI
- Application-level firewall
- Filters WLAN MAC addresses

Management

- Supports local device management and firmware upgrade via FOTA
- Supports APN management
- Supports PIN/PUK management

Wireless LAN standards

- 802.11 b/g/n/ax 2.4 GHz, data rates up to of 574 Mbps
- 802.11 a/n/ac/ax 5 GHz, data rates up to of 1.2 Gbps

Wireless LAN AP features

- Wireless Protected Setup (WPS)
- WPA-PSK, WPA2-PSK, WPA3/WPA2 mixed mode with TKIP & AES security type
- Hidden SSID
- Supports MU-MIMO
- Connected users – max. 16

Hardware specifications

5G NR interface

- 3GPP Release 15 standard-compliant
- Supports 5G NR NSA/SA mode
- Supports frequencies: n1/n3/n7/n8/n20/n28/n41/n77/n78**
- DL 4x4 MIMO: n1/n3/n77/n41/n7/n78
- Supports DL speeds of up to 4 Gbps*
- Supports DL modulation QPSK, 16-QAM, 64-QAM and 256-QAM
- Supports UL modulation QPSK, 16-QAM and 64-QAM
- Output power:
 - Class 3 (23 dBm) for bands: n1/n3/n7/n8/n20/n28/n41/n77/n78**

4G LTE interface

- 3GPP UE Category 20 standard-compliant
- Supports frequencies:
 - FDD bands: B1/B3/B7/B8/B20/B28**
 - TDD bands: B38**
- DL MIMO:
 - FDD: B1/B3/B7
 - TDD: B38
- Supports 4G LTE DL speeds of up to 2 Gbps
- Supports DL modulation QPSK, 16-QAM, 64-QAM and 256-QAM
- Supports UL modulation QPSK, 16-QAM and 64-QAM
- Output power:
 - Class 3 (23 dBm) for FDD/TDD bands

Hardware interface

- One power on/off button
- One 10/100/1000 Mbps Ethernet RJ-45 LAN port
- One LED indicator:
 - Power status
- One USB 3.1 gen 2 type C port (support quick charging 2.0)
- One reset to default button
- One nano SIM card slot
- 2.4" color touch screen:
 - Operator name
 - 5G/4G/3G network status
 - Signal strength
 - Battery status
 - WiFi status

Battery

- Removable lithium-ion polymer battery
- 3.8 V, 5300 mAh
- Up to 10 hours operating time (depends on network environment)

Physical specifications

- Item dimensions (WxDxH): 119 x 72 x 23.5 mm (4.69" x 2.84" x 0.93")
- Item weight: 235 g (0.52 lb.)
- Packing dimensions (WxDxH): 165 x 115 x 46.5 mm (6.50" x 4.53" x 1.83")
- Packing weight: 476 g (1.05 lb.)

Environmental specifications

Operating environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 10% to 90% RH (non-condensing)

Storage environment

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 90% (non-condensing)

Certification

- CE
- GCF (Global Certification Forum)

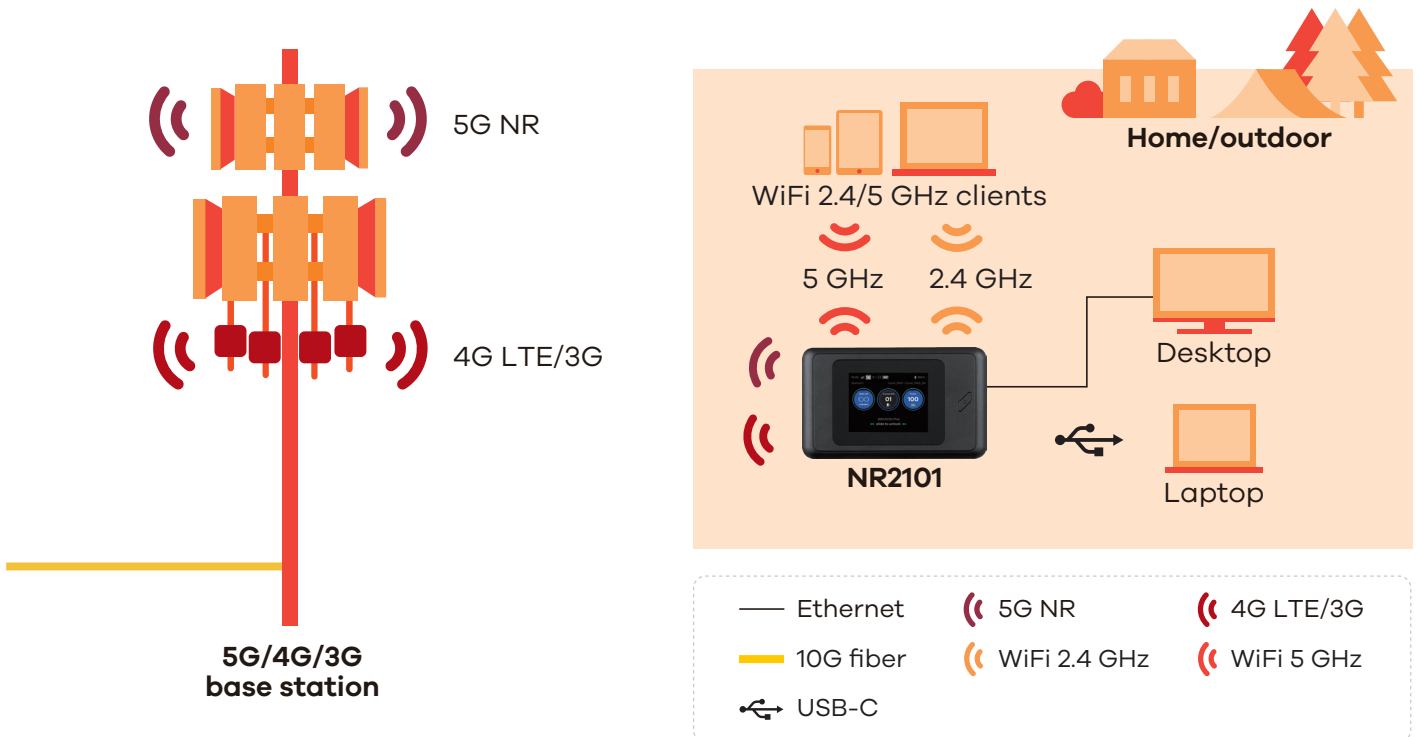
Package contents

- Battery (5300 mAh)
- AC charger
- USB type C cable
- Quick Start Guide
- Warranty card
- CE DoC

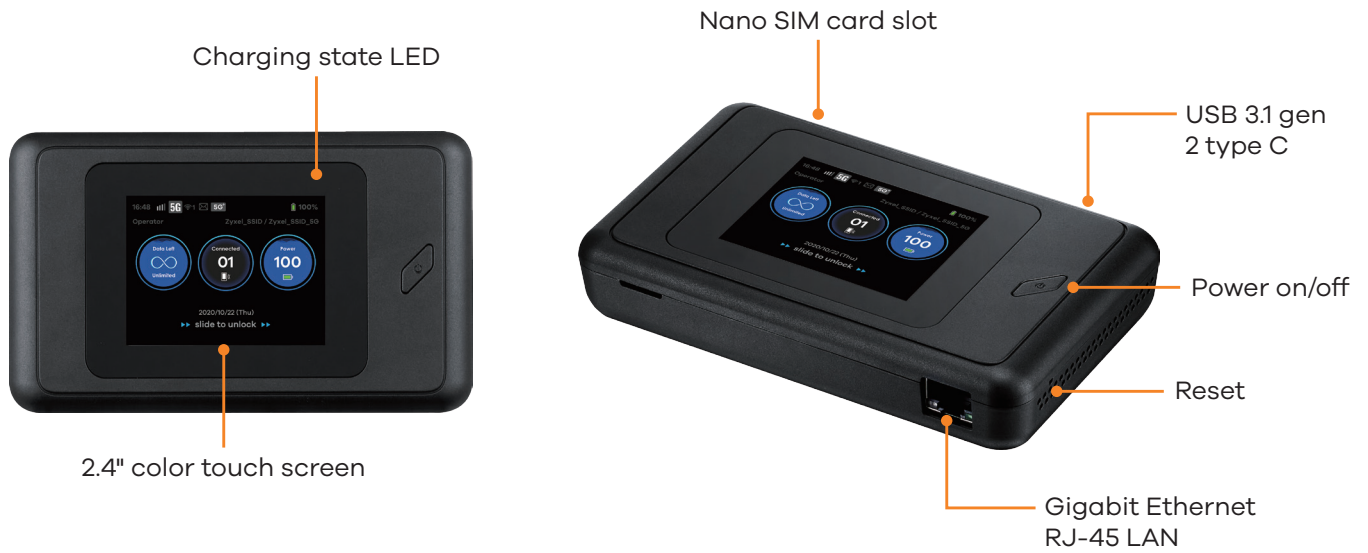
* The data rates presented in the datasheet are PHY rates. The actual data rates depend on the operators' network environment and the real-time environment of the end-users' resource block allocation.

** For more bands support please contact local sales.

Application diagram



Hardware description



For more product information, visit us on the web at www.zyxel.com

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Datasheet NR2101



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