



## NR7101

### 5G NR Outdoor Router

Feeling the need to increase bandwidth and network speed at office? Want to help manufacturing production operations become more flexible and efficient with better precision and lower costs than human inspection? Get a head start on smart office or industry 5.0, it's time to upgrade to 5G and empower your future. NR7101 is poised to be your backbone of your network to pave the way for your future business success.

### Benefits

#### Multifunction Router, Business Supporter

NR7101 is not only a simple network router, but your multipurpose business partner. It can be deployed as part of a Fixed Wireless Access (FWA) without extra wire infrastructure. To set 5G as your primary connection or use it as a backup when the primary connection drops. NR7101 has dual SIM card slots to prevent network disconnection and provide 24/7 non-stop connectivity. It also supports bridge mode to connect multiple devices without the risk of performance issues. NR7101 offers more than just 5G, the variety of usage is entirely up to you!



5G NR with up to 5 Gbps download rate\*



Outdoor-friendly



6 High gain LTE/5G directional antennas of up to 10 dBi



Dual SIM card slots



Support Standalone and Non-Standalone mode



Embedded bridge and router mode



Standard 802.3af/at PoE



Free app for finding the best installation signal spot



Remote management

## Strong Backbone, Stronger Connection

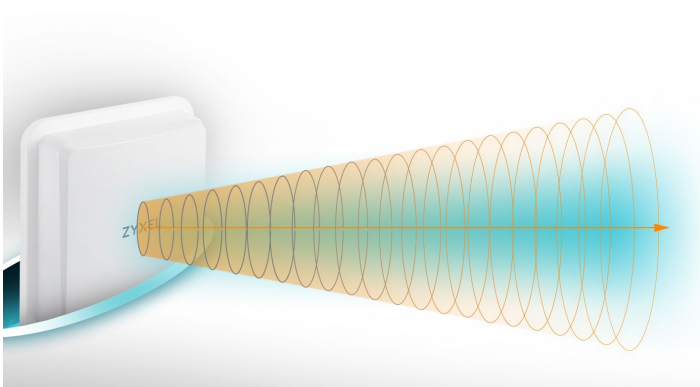
NR7101 has industrial-grade components with outdoor-friendly design making it possible to work in harsh environment conditions where desirable signal strength is difficult to achieve or having weather challenges including strong winds and rainstorms. NR7101 guarantees high-quality connections and a longer device life, which supports your business deployment in wide territorial scopes.

- IP68-certified : Water resistant
- IP68-certified : Dust, dirt and sand resistant
- Withstand hurricane level winds (Level 16, 200 Km/hr)
- K.21 enhanced-mode lightning protection
- Adapts to temperature from  $-40^{\circ}\text{C}$  to  $60^{\circ}\text{C}$



## Better Signal, Work Wonders

NR7101 has up to 5 Gbps data rates, and with Six 10 dBi long range directional antennas to provide a focused networking coverage. Experience better, stronger signal strength and enhanced signal quality of 5G network for faster speed. Grab the NR7101, it's efficient and can work wonders!



## Efficient and Precise Installation

To find the best signal spot for installation, you just need to use a smartphone or tablet to connect to NR7101's WiFi network and follow its configuration instruction on the free "Zykel Air" app. Comes with flexible wall and pole mounting options, integrated Power over Ethernet (PoE) support makes power requirements a non-issue.

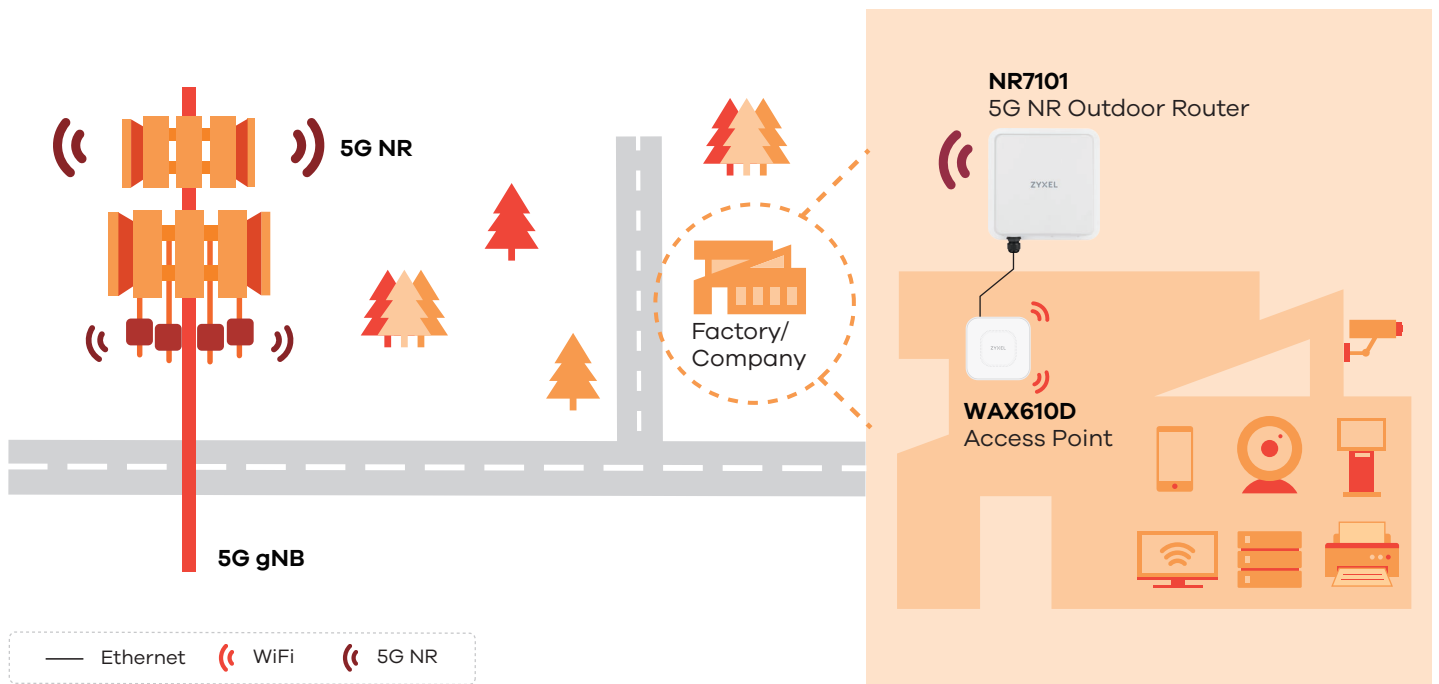


## Network Slicing, Tailor Your Network

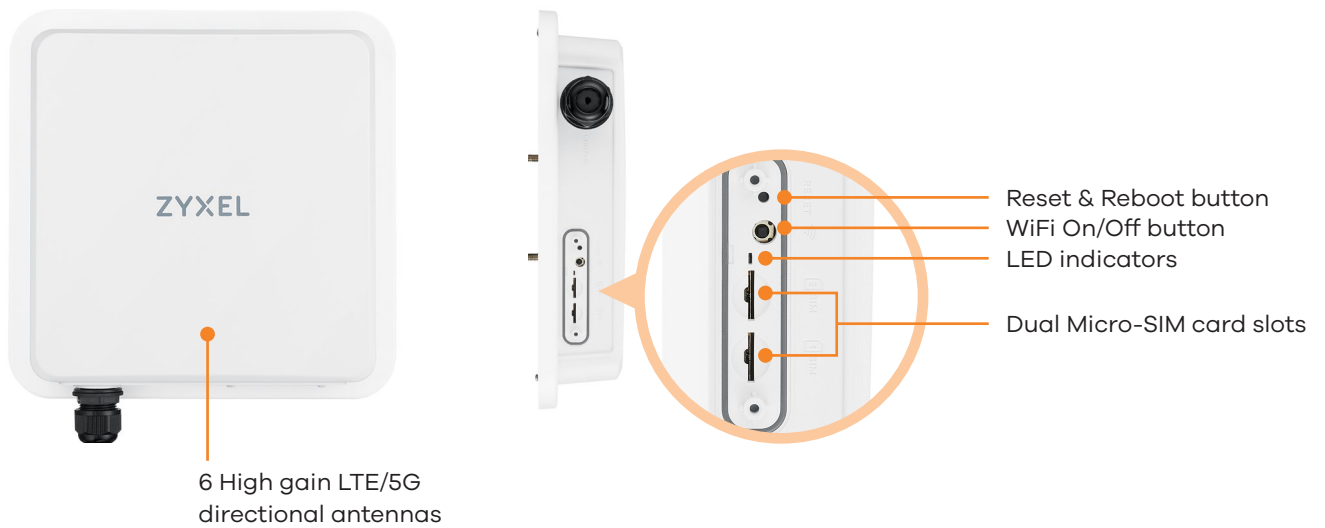
NR7101 is interoperable with both Standalone (SA) and Non-Standalone (NSA) deployments. Under SA mode, NR7101 can support network slicing function with tailored network capabilities that are essential to fulfil different business needs, like dealing complex environments with massed wired and wireless networks for separate factory and office connections, and handling of multiple-node WiFi infrastructure, which can be unstable. Customize network via NR7101 to keep ahead of industry and to ensure success!



## Application Diagram



## Interface Description



# Specifications

## Hardware specifications

### 5G NR interface

- 3GPP Release 15 standard-compliant
- Supports both NSA and SA modes
- Supports frequencies: n1/n3/n5/n7/n8/n20/n28/n41/n77/n78/n38/n40
- DL 4x4 MIMO: n1/n3/n7/ n38/n40/n41/n77/n78

### 4G LTE interface

- 3GPP UE Category 20 standard-compliant
- Supports frequencies:
  - LTE-FDD: B1/B3/B5/B7/B8/B20/B28
  - LTE-TDD: B38/B40/B41/B42

### Hardware interface

- One GbE RJ-45 PoE LAN port
- LEDs:
  - Power status
  - Internet status
  - WiFi status
- Two 3FF format Micro SIM card slots (redundant)
- One WiFi on/off button
- One reset to default button

## Power consumption

- Power consumption at PoE: < 16 W (est.)

## Physical specifications

- Item dimensions (WxDxH): 255 x 256 x 58 mm (9.99" x 10.03" x 2.28")
- Item weight: 1143 g (21 lb.)
- Packing dimensions (WxDxH): 280 x 420 x 108 mm (11.02" x 16.53" x 4.25")
- Packing weight: 2818 g (61 lb.)

## Environmental Specifications

### Operating Environment

- Temperature: -40°C to 60°C (-40°F to 140°F)
- Humidity: 5% to 95% (non-condensing)

### Storage Environment

- Temperature: -40°C to 65°C (-40°F to 149°F)
- Humidity: 5% to 95% (non-condensing)

### Ingress Protection rating

- IP68

### Lightning protection

- K.21 enhanced mode, 6 KV

### Wind load testing

- GR 487 issue 4 (2013) standard-compliant
- Level 16 wind force
- Wind speeds 53.6 m/sec (~ 193 km/h)

## Certification

- CE
- WEEE (Waste Electrical and Electronic Equipment) Directive certification
- RoHS (Restriction of Hazardous Substances) Directive certification
- HSF (Hazardous Substance Free)
- European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

## Package Contents

- Standard 802.3af/at Power over Ethernet (PoE) injector
- 1.8 M Ethernet cable 8P8C
- Quick Start Guide
- Warranty card
- DoC and safety warning
- Wall/pole mounting kit

\* The maximum data rate is a theoretical value. The actual data rate depends on the operator.

\*\* WiFi interface is used for local management purposes only.

## Zyxel Air App



For more product information, visit us on the web at [www.zyxel.com](http://www.zyxel.com)

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Datasheet NR7101



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