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NETGEAR®

Whole Home Tri-band Mesh WiFi 6 System

Data Sheet

RBK852

Overview

Break free from limitations with strong, reliable, and lightning fast WiFi in every room of your home. From the top floor down to the basement, Orbi Tri-band Mesh WiFi 6 Systems bring you higher performance & simultaneous WiFi streaming, gaming & browsing on even more devices.

The ultimate in smart home WiFi.

Features

Cutting Edge Performance.

Get the ultimate experience with 12 Streams of WiFi 6 and speeds up to 6Gbps.† Enjoy 4K/8K UHD streaming, lag-free gaming & smooth streaming.

More Capacity, More Battery Life.

Don't be held back by limited capacity. Enjoy more devices simultaneously with 4X the capacity than before & improved efficiency for longer battery life.

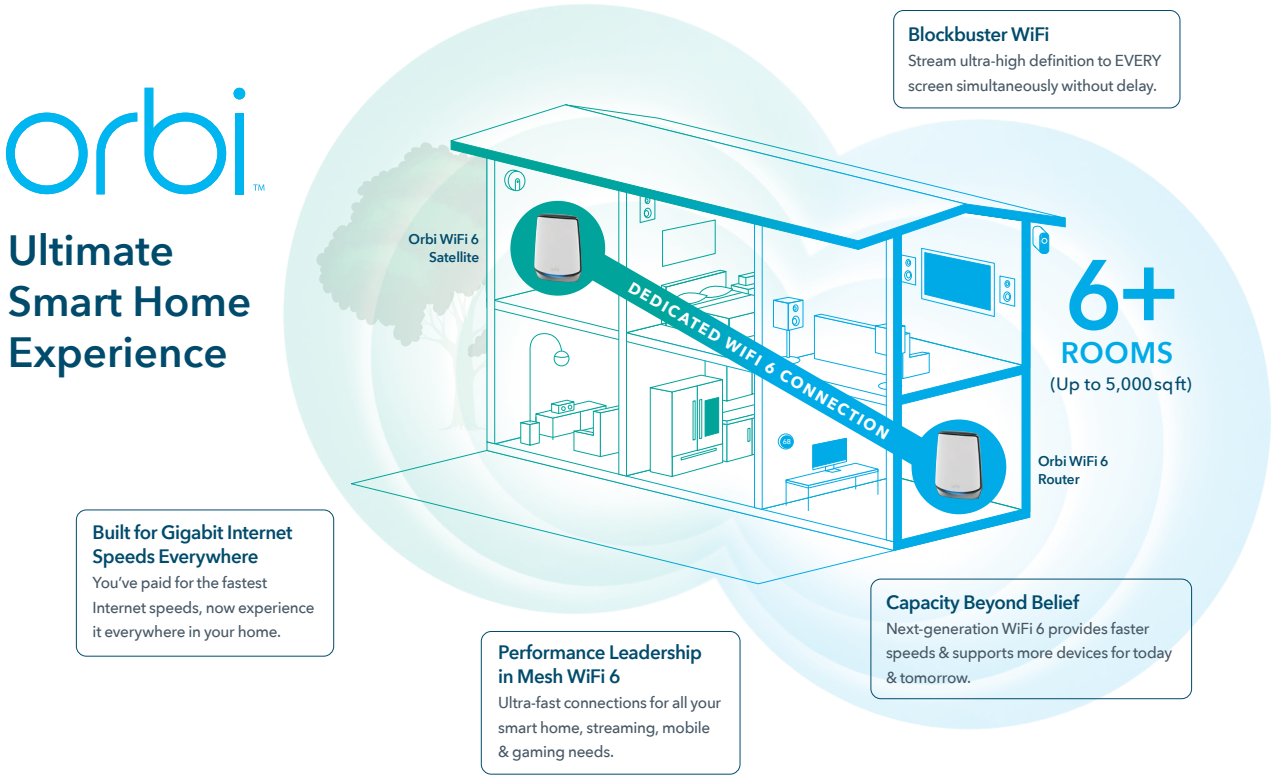
Gigabit Speeds Where You Need Them.

Don't let your home be a maze of dead zones. Get consistent speeds everywhere with Tri-band dedicated wireless backhaul, 8 Gigabit Ethernet ports & a 2.5Gbps Internet port.

It's Easy.

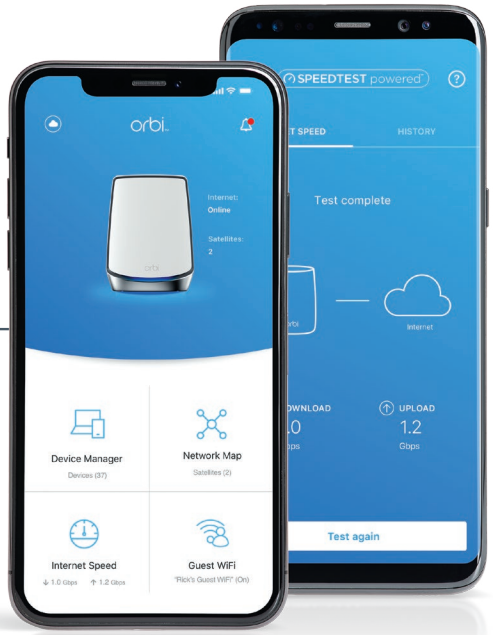
Enjoying your WiFi has never been easier. With the Orbi app, set up your WiFi, customize your settings & enjoy your new Orbi WiFi in minutes.

House Diagram



Orbi App

Use the Orbi app to setup and manage your Orbi WiFi.



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Orbi Router (RBR850)

Orbi Satellite (RBS850)

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What's In the Box?

- One (1) Orbi Router (RBR850)
- One (1) Orbi Satellite (RBS850)
- One (1) 2m Ethernet cable
- Two (2) 12V/3.5A power adapters
- Quick start guide

What Do I Need for Orbi to Work?

- High-speed Internet connection
- Connect to existing modem or gateway
- Orbi Mobile app

Physical Specifications

- Dimensions: 10 x 7.5 x 2.8 in each
- Weight: 2.86lb each

Software Features

- Router Analytics
- Orbi Mobile App

Technical Specifications

- Orbi AX6000 Router and AX6000 Satellite (2400 + 2400 + 1200Mbps)†
- Simultaneous Tri-band WiFi
  - Radio 1: IEEE® 802.11b/g/n/ax 2.4GHz—1024-QAM support
  - Radio 2: IEEE® 802.11a/n/ac/ax 5GHz—1024-QAM support
  - Radio 3: IEEE® 802.11a/n/ac/ax 5GHz—1024-QAM support
- MU-MIMO capable for simultaneous data streaming
- Implicit & Explicit Beamforming for 2.4GHz & 5GHz bands
- Processor - Router & Satellite
  - Powerful quad-core 2.2GHz processor
- Memory – Router
  - 512MB NAND flash and 1GB RAM
- Antenna – Router & Satellite (each)
  - Eight (8) high-performance internal antennas with high-power amplifiers
- Ports – Orbi Router
  - Four (4) 10/100/1000Mbps Gigabit Ethernet LAN ports
  - One (1) 2.5Gbps Multi-Gigabit Ethernet WAN port (WAN Link Aggregation by adding one of the 1Gbps LAN ports to the 2.5 Gbps WAN port.)
- Ports – Orbi Satellite (each)
  - Four (4) 10/100/1000Mbps Gigabit Ethernet LAN ports
- Security
  - Standards-based WiFi Security (802.11i, 128-bit AES encryption with PSK)
  - Guest WiFi Network is easy to setup separate & secure Internet access for guests
- Voice Control
  - Amazon Alexa™
  - The Google© Assistant

This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller. www.netgear.com/warranty

*90-day complimentary technical support following purchase from a NETGEAR authorized reseller.

† Maximum wireless signal rate derived from IEEE standard 802.11 specifications. Network conditions and environmental factors, including volume of network traffic, building construction, and network overhead may decrease actual data throughput rate.

For regulatory compliance information, visit http://www.NETGEAR.com/about/regulatory

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