



Orbi WiFi 6

Data Sheet

RBK853



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. This system now includes NETGEAR Armor™, advanced cyber security for your connected devices. The ultimate in smart home WiFi.

The ultimate in smart home WiFi.



NETGEAR Armor™
Powered by Bitdefender®¹

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.



Cybersecurity With NETGEAR Armor™.

Protect your connected home devices from Internet threats with best-in-class anti-virus, anti-malware & data protection.¹



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, 12 Gigabit Ethernet ports & a 2.5Gbps Internet port.



It's Easy.

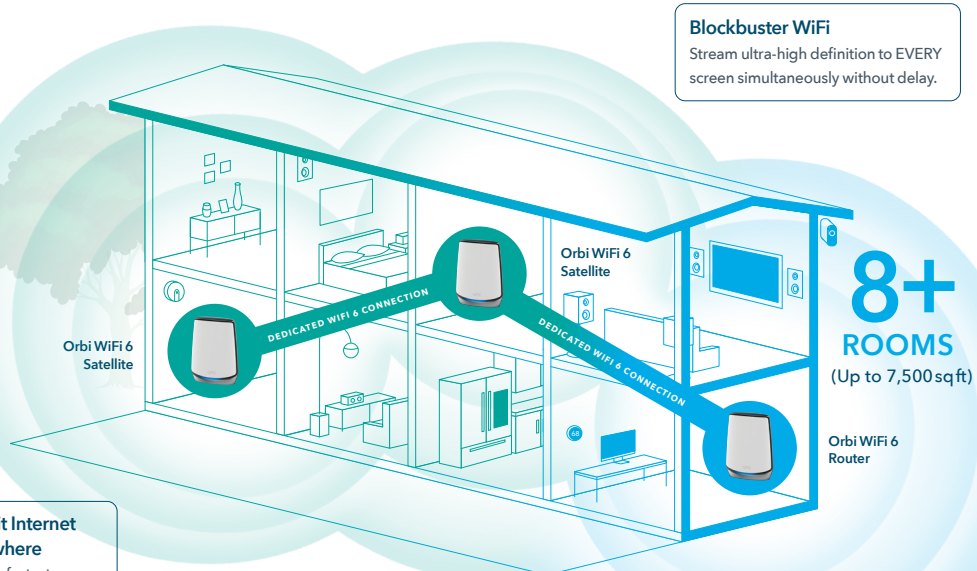
Enjoying your WiFi has never been easier. With the Orbi app, set up your WiFi, customize your settings & enjoy your new Orbi WiFi in minutes.



House Diagram



Ultimate
Smart Home
Experience



Blockbuster WiFi

Stream ultra-high definition to EVERY screen simultaneously without delay.

Built for Gigabit Internet Speeds Everywhere

You've paid for the fastest Internet speeds, now experience it everywhere in your home.

Performance Leadership in Mesh WiFi 6

Ultra-fast connections for all your smart home, streaming, mobile & gaming needs.

Capacity Beyond Belief

Next-generation WiFi 6 provides faster speeds & supports more devices for today & tomorrow.



Orbi App

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



Advanced Cyber Security for Your Devices
NETGEAR Armor™ | Powered by Bitdefender®

- **Advanced Threat Detection** - Identifies & blocks viruses, spyware, ransomware, malicious links, and more, on your laptops, tablets & smartphones.
- **Smart Home Vulnerability Scans** - Regularly scans connected devices to ensure they're not vulnerable to hackers.
- **Data Theft Protection** - If your Android® or Windows™ device is lost or stolen, you can locate, lock, & wipe data remotely.
- **Instant Alerts** - Receive immediate alerts when threats are detected & blocked.

Learn more at [NETGEAR.com/armor](https://www.netgear.com/armor)



Orbi Router (RBR850)

Orbi Satellite (RBS850)



Sync
Internet
Gigabit Ethernet ports



Sync
Gigabit Ethernet ports



What's In the Box?

- One (1) Orbi Router (RBR850)
- Two (2) Orbi Satellites (RBS850)
- One (1) 2m Ethernet cable
- Three (3) 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

Software Features

- Orbi Mobile App

Physical Specifications

- Dimensions: 10 x 7.5 x 2.8 in each
- Weight: 2.87 lb each

Technical Specifications

- Orbi AX6000 Router and AX6000 Satellites (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 & Satellites
 - Powerful quad-core 2.2GHz processor
- Memory – Router
 - 512MB NAND flash and 1GB RAM
- Antenna – Router & Satellites (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 using 1Gbps LAN port together with 2.5Gbps WAN port
- Ports – Orbi Satellites (each)
 - Four (4) 10/100/1000Mbps Gigabit Ethernet LAN ports
- Security
 - Comprehensive anti-virus & data theft protection for your PC, Mac® and mobile devices with NETGEAR Armor™
 - 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.

‡ NETGEAR Armor™ is free during the trial period. A yearly subscription, after the trial period, protects your connected devices. Visit www.netgear.com/armor

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

The country settings must be set to the country where the device is operating.

For indoor use only.

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