

Cudy AP11000

Cudy BE11000 AP11000 Tri-Band Wi-Fi 7 Wireless Access Point User Manual

Model: AP11000

1. PRODUCT OVERVIEW

The Cudy BE11000 AP11000 is a high-performance Tri-Band Wi-Fi 7 Wireless Access Point designed for robust and high-density network environments. It supports the latest Wi-Fi 7 standard, offering advanced features for enhanced speed, capacity, and coverage.

Key Features:

- **Tri-Band Wi-Fi 7:** Delivers combined speeds of up to 11000 Mbps (5760 Mbps on 6 GHz, 4320 Mbps on 5 GHz, and 574 Mbps on 2.4 GHz).
- **Multi-Gigabit Ports:** Equipped with one 10 Gigabit SFP+ port and one 2.5 Gigabit Ethernet port with PoE-in support.
- **Flexible Power Options:** Supports 802.3at standard PoE, passive PoE, and 12V DC power input.
- **Cudy APP Control:** Offers convenient cloud and local management through the Cudy application.
- **Mesh Technology:** Enables seamless roaming and expanded coverage when integrated with other Cudy Mesh-compatible devices.
- **Multi-VPN Support:** Includes WireGuard, OpenVPN, IPsec, ZeroTier, PPTP, and L2TP for secure network transmissions.
- **High Capacity:** Designed to connect a large number of devices simultaneously.

Package Contents:

- Cudy BE11000 AP11000 Wireless Access Point
- Power Adapter
- Mounting Kit
- Ethernet Cable
- Installation Guide

2. PHYSICAL DESCRIPTION

Front Panel:

The front panel features the Cudy logo and an LED indicator. The LED provides status information about the device's operation.



Image: Front view of the Cudy BE11000 AP11000 Wireless Access Point, showing the Cudy logo and a blue LED indicator.

Rear Panel and Ports:

The rear panel contains all necessary ports for connectivity and power. These include a 10G SFP+ port, a 2.5 Gbps Ethernet port (PoE IN), a reset button, and a DC power input.

Unlock Ultra-Fast Speed with 10 Gbps SFP+ Port



10G SFP+

2.5 Gbps Ethernet Port (PoE IN)

Image: Close-up view of the Cudy BE11000 AP11000's rear ports, highlighting the 10G SFP+ port and the 2.5 Gbps Ethernet port (PoE IN) with cables connected.



Image: Rear and side perspective of the Cudy BE11000 AP11000, showing the DC power input and the 2.5 Gbps Ethernet port with connected cables.

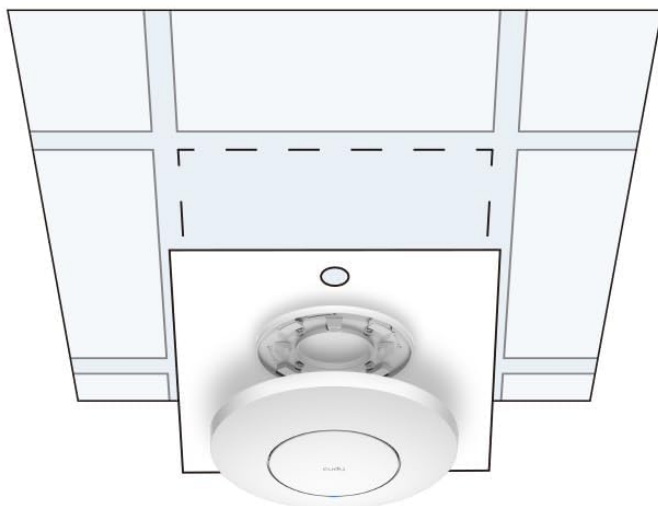
3. INSTALLATION

Mounting Options:

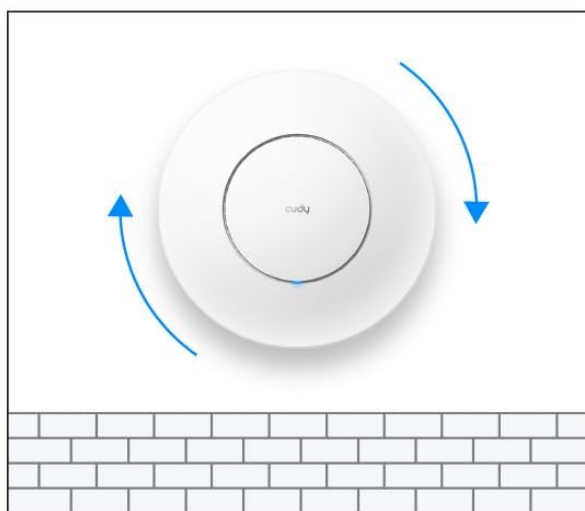
The AP11000 supports both ceiling and wall mounting for flexible deployment. Use the included mounting kit and follow the instructions provided in the separate installation guide for secure attachment.

Quick and Flexible Installation

Mounting kit and installation guide included



Ceiling Mounting



Wall Mounting

Image: Diagrams illustrating the process for both ceiling mounting and wall mounting the Cudy BE11000 AP11000 Wireless Access Point.

Powering the Device:

The AP11000 can be powered using one of the following methods:

- **Power over Ethernet (PoE):** Connect an Ethernet cable from a PoE-enabled switch or injector to the 2.5 Gbps Ethernet port (PoE IN). This method provides both data and power over a single cable.
- **DC Power Adapter:** Connect the included power adapter to the DC power input port and plug it into a standard electrical outlet.

4. SETUP

Initial Configuration:

Upon first power-up, the AP11000 will broadcast default Wi-Fi networks. You can connect to these networks to begin the configuration process. It is recommended to change default settings, including Wi-Fi names (SSIDs) and passwords, immediately after initial access.

Using the Cudy App:

Download the Cudy app from your mobile device's app store. The app provides a user-friendly interface for managing your AP11000, including initial setup, network monitoring, and feature configuration. The app supports both cloud and local management.

Web Interface Access:

For advanced configuration, access the AP11000's web interface via a web browser. Connect your computer to the AP11000 directly or through your network. Open a web browser and enter the default IP address (refer to the installation guide or product documentation for the specific IP address). Log in with the default credentials, which should be changed for security purposes.

5. OPERATION

Wi-Fi Settings:

Configure your wireless networks (SSIDs) for the 2.4 GHz, 5 GHz, and 6 GHz bands. You can set unique SSIDs and passwords for each band or use a unified SSID for seamless band steering.

Multi-SSID for Enhanced Security:

The AP11000 supports creating multiple SSIDs, allowing you to segment your network for different user groups or device types (e.g., Guest, Staff, IoT). This enhances security and network management.

Enhance Security with Multi-SSID

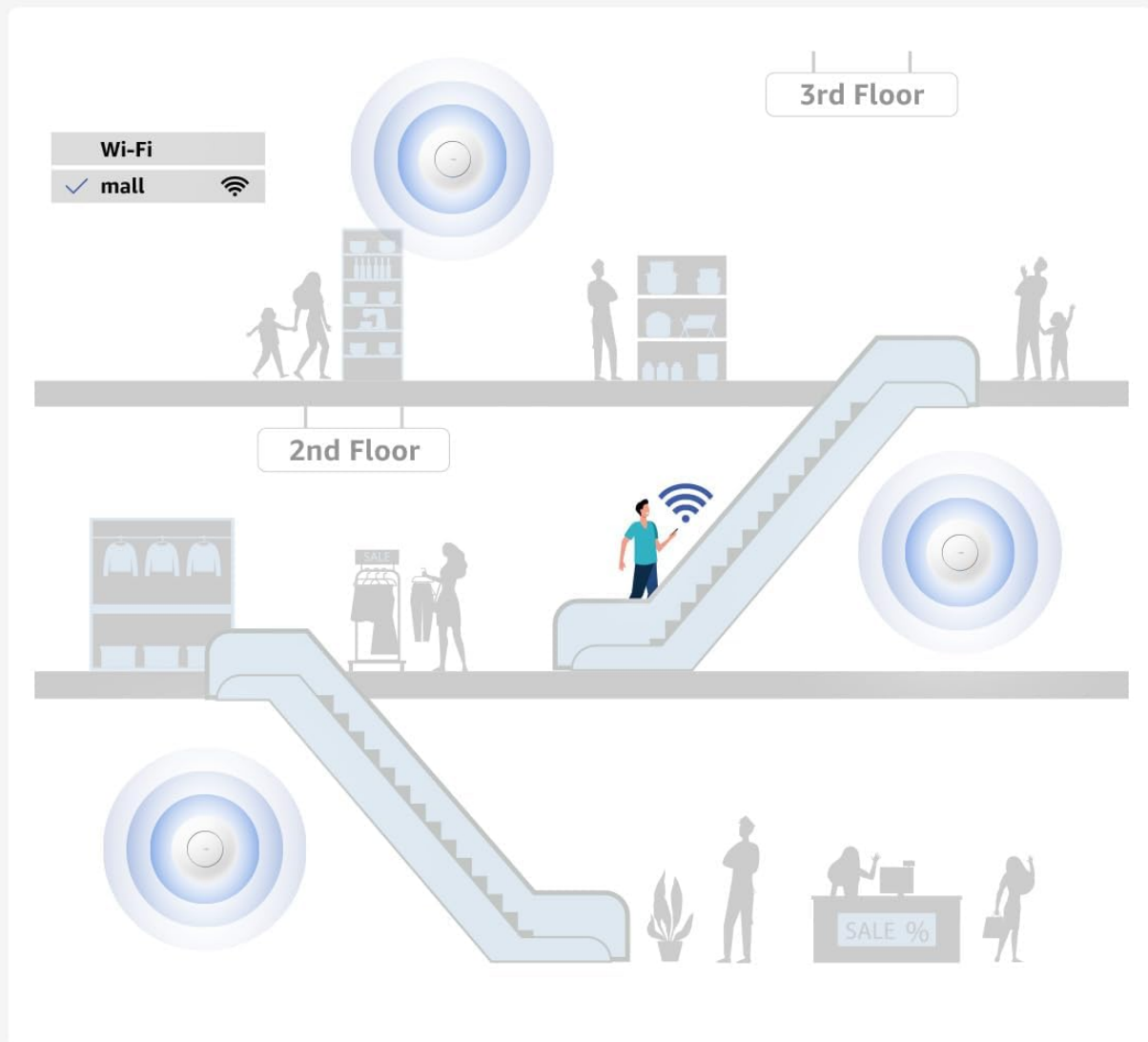


Image: A cafe environment demonstrating the use of multiple SSIDs (IoT, Staff, Guest) to segment network access for different purposes.

Mesh Technology and Fast Roaming:

When deployed with other Cudy Mesh-compatible devices, the AP11000 can form a mesh network, providing extended coverage and fast roaming for connected devices. This ensures a consistent Wi-Fi experience as users move across different areas.

Fast Roaming with Mesh Technology



*Requires a Cudy Wi-Fi router/VPN router/access point controller as a gateway with firmware newer than 15.28.

Image: A multi-floor building diagram showing how Mesh Technology enables fast roaming and seamless Wi-Fi coverage across different levels.

VPN Configuration:

The AP11000 supports various VPN protocols, including WireGuard, OpenVPN, IPsec, Zerotier, PPTP, and L2TP. Configure VPN settings through the web interface to establish secure and stable connections for remote access or network privacy.

6. ADVANCED FEATURES

Centralized Management:

For larger deployments, the AP11000 can be managed centrally using Cudy's management solutions, such as the Cudy C200P or Cudy PoE Switches. This allows for efficient configuration and monitoring of multiple access points from a single interface.

Centralized Management for Access Points



Image: A hotel complex illustrating how various Cudy Access Points (Wall-Plate, Outdoor, Ceiling-Mount) are centrally managed via Cudy C200P and PoE Switches.

Captive Portal:

Implement a captive portal for guest networks, requiring users to authenticate or agree to terms of service before

gaining internet access. This is particularly useful in public or business environments.

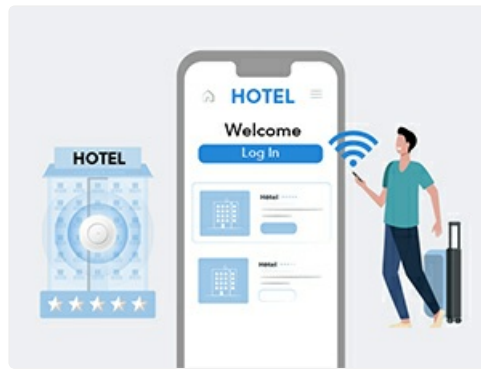


Image: A mobile phone screen displaying a hotel login page, representing a captive portal for guest access.

Band Steering and Channel Optimization:

The AP11000 can intelligently steer devices to the optimal Wi-Fi band (2.4 GHz, 5 GHz, or 6 GHz) and optimize channel usage to minimize interference and maximize performance.



Image: A diagram showing how band steering directs devices to either the 5 GHz or 2.4 GHz band based on network conditions.

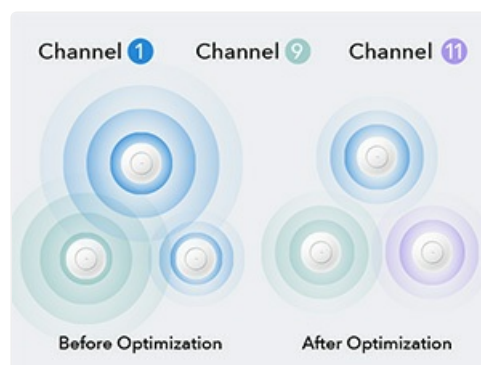


Image: A diagram comparing Wi-Fi channel usage before and after optimization, showing how channels are adjusted to reduce overlap and interference.

7. MAINTENANCE

Firmware Updates:

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can be performed via the Cudy app or the web interface.

Resetting the Device:

To restore the AP11000 to its factory default settings, locate the reset button on the rear panel. With the device powered on, press and hold the reset button for approximately 10 seconds until the LED indicator changes, then release. The device will reboot with factory defaults.

8. TROUBLESHOOTING

No Power:

- Ensure the power adapter is securely connected to the AP11000 and a working power outlet.
- If using PoE, verify that the Ethernet cable is connected to a PoE-enabled port on your switch/injector and that the PoE source is active.

No Internet Access:

- Check the Ethernet connection from the AP11000 to your router or network.
- Verify that your main router has an active internet connection.
- Ensure the AP11000 is configured correctly (e.g., in Access Point mode, not Router mode if you already have a router).

Poor Wi-Fi Signal or Speed:

- Relocate the AP11000 to a more central location, away from obstructions and sources of interference (e.g., microwaves, cordless phones).
- Ensure your client devices support Wi-Fi 7 or at least Wi-Fi 6E to utilize the 6 GHz band.
- Check for firmware updates.
- Consider adding more Cudy access points to create a mesh network for broader coverage.

Cannot Access Web Interface:

- Verify your computer is connected to the same network as the AP11000.
- Ensure you are using the correct IP address for the AP11000. If the IP address was changed, use the new one.
- Try clearing your browser's cache or using a different browser.
- If all else fails, perform a factory reset (see Section 7) and try accessing with default credentials.

9. SPECIFICATIONS

Feature	Specification
Model	AP11000
Wi-Fi Standard	Wi-Fi 7 (802.11be)
Frequency Bands	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Wi-Fi Speeds	5760 Mbps (6 GHz) + 4320 Mbps (5 GHz) + 574 Mbps (2.4 GHz)
Ethernet Ports	1 x 10G SFP+ Port, 1 x 2.5G PoE-in Ethernet Port
Power Input	802.3at PoE, Passive PoE, 12V DC

Dimensions (L x W x H)	9.13 x 9.13 x 2.24 inches
Item Weight	1.28 pounds
Color	White
Operating Modes	Access Point Mode, Remote Access
Compatible Devices	PC, Smart Phone, Smart TV, Laptop, Tablet


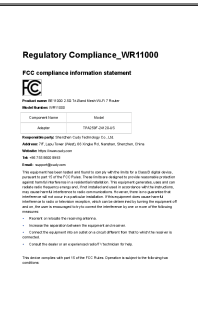


10. SUPPORT

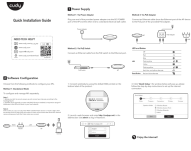

For further assistance, technical support, or warranty information, please visit the official Cudy website or contact Cudy customer support through the channels provided in your product packaging or on their website.

Online Resources:

- Official Cudy Website: www.cudy.com
- Product Support Page: Refer to the Cudy website for specific support pages related to the AP11000 model.

Related Documents - AP11000

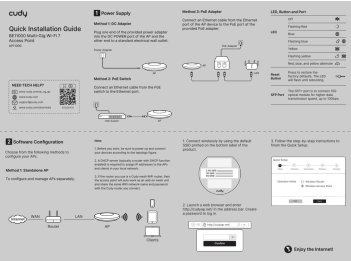
	<p>Cudy Networking Product Guide: Wi-Fi 7, Wi-Fi 6 Routers, Mesh Systems & More</p> <p>Explore Cudy's comprehensive networking product guide featuring Wi-Fi 7 and Wi-Fi 6 routers, mesh systems, 4G/5G solutions, access points, switches, and peripherals for home and business. Discover advanced connectivity solutions from Shenzhen Cudy Technology Co., Ltd.</p>
	<p>Cudy WR11000 Regulatory Compliance & Safety Information BE11000 Wi-Fi 7 Router</p> <p>Regulatory compliance information for the Cudy BE11000 2.5G Tri-Band Mesh Wi-Fi 7 Router (WR11000), detailing FCC, CE, UKCA, and Canadian standards, operating frequencies, RF exposure, and safety guidelines.</p>
	<p>Cudy AP3000D AX3000 Desktop Wi-Fi 6 Access Point Datasheet</p> <p>Datasheet for the Cudy AP3000D AX3000 Desktop Wi-Fi 6 Access Point, detailing its Wi-Fi 6 capabilities, high-speed performance, versatile powering options (PoE, DC), Cudy Mesh compatibility, and comprehensive hardware and software specifications for office, hotel, and studio environments.</p>
	<p>Cudy WR11000 BE11000 2.5G Tri-Band Mesh Wi-Fi 7 Router Datasheet</p> <p>Explore the Cudy WR11000, a BE11000 2.5G Tri-Band Mesh Wi-Fi 7 Router. Featuring high speeds, advanced features, and extensive connectivity for modern homes and businesses.</p>

	Cudy Quick Installation Guide: AP3000 & AP1300 Setup Comprehensive guide for installing and configuring Cudy wireless access points (AP3000, AP1300) using various power supply methods, standalone mode, and controller mode. Includes LED status, software setup steps, and regulatory information.
	Cudy Mesh Wi-Fi System Quick Installation Guide Step-by-step instructions to set up your Cudy Mesh Wi-Fi network, connect units, and configure settings for optimal internet coverage.

Documents - Cudy – AP11000

[\[pdf\]](#) User Manual Installation Guide Guide

810600430 Cudy AP11000 1 284x210mm 71x105mm 80 1C 1C ZC BE11000 Multi Gig Wi Fi 7 Access Point AP PoE Adapter LAN The SFP port is to connect 10G optical module for higher data transmission AP11000 Quick Installation Guide ENdwn alza cz manual 150380 cudy guideBE11000 transmission Cudy inkl DC Netzteil BE11000 starting from £ 149 90 2025 Price Comparison Skinflint UKAP11000 ENv1dwn 150380gzhl at blob ldb 9 3 5 a697808ee91ea2fd730c4bdf0ece6f0aa69f guideDownloadBE11000 UKDownloads CudyAP11000 ENv1AP11000 a697808ee91ea2fd730c4bdf0ece6f0aa69fcudy cdn shop files EN v 4235902259008556962 ||| ||| Quick Installation Guide BE11000 Multi-Gig Wi-Fi 7 Access Point AP11000 1 Power Supply Method 1: DC Adapter Plug one end of the provided power adapter into the DC POWER port of the AP and the other end to a standard electrical wall outlet. ||| Quick Installation Guide BE11000 Multi-Gig Wi-Fi 7 Access Point AP11000 1 Power Supply Method 1: DC Adapter Plug one end of the provided power adapter into the DC POWER port of the AP and the other end to a standard electrical wall outlet. Quick Installation Guide BE11000 Multi-Gig Wi-Fi 7 Access Point**AP11000** 1 Power Supply Method 1: DC Adapter Plug one end of the provided power adapter into the DC POWER port of the AP and the other end to a standard electrical wall outlet. Power Adapter NEED TECH HELP www.cudy.com/qv_vg_ap www.cu... lang:en score:38 filesize: 114.52 K page_count: 2 document date: 2025-05-22



[\[pdf\]](#) User Manual Installation Guide Guide

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Guide v 4015951060107531964 cudy guideDownloadDevice optionally via the Switch or PoE Adapter
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 ||| ||| CE DECLARATION OF CONFORMITY For the following equipment: Product Name: BE11000 Multi-
 Gigabit Tri-band Wi-Fi 7 Mesh Access Point Model Number: AP11000 Trademark: Cudy We declare
 under our own responsibility that the above product satisfies
 CE DECLARATION OF CONFORMITY For the following equipment: Product Name:
 BE11000 Multi-Gigabit Tri-band Wi-Fi 7 Mesh Access Point Model Number: **AP11000**
 Trademark: Cudy We declare under our own responsibility that the above product
 satisfies all the technical regulations applicable to the product wit...
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shop files Statements v 18285930049366599309 ||| ||| STATEMENT OF COMPLIANCE Manufacturer:
Shenzhen Cudy Technology Co., Ltd. Address: 7/F, Lepu Tower West , 66 Xingke Rd, Nanshan,
Shenzhen, China Product Name: BE11000 Multi-Gigabit Tri-band Wi-Fi 7 Mesh Access Point Model
Number: AP11000 Pro
STATEMENT OF COMPLIANCE Manufacturer: Shenzhen Cudy Technology Co., Ltd.
Address: 7/F, Lepu Tower West , 66 Xingke Rd, Nanshan, Shenzhen, China Product
Name: BE11000 Multi-Gigabit Tri-band Wi-Fi 7 Mesh Access Point Model Number:
AP11000 Product Version: V1 We, Shenzhen Cudy Technology Co., Ltd. her...
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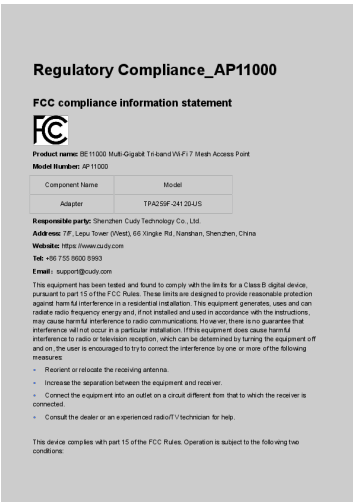
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Model: **AP11000** BE11000 Multi-Gigabit Tri-band Wi-Fi 7 Mesh Access Point
Datasheet Highlights Qualcomm 1.5 GHz Quad-Core CPU 6-Stream Tri-Band Wi-Fi 7 5.7 Gbps 4.3 Gbps 688 Mbps 1 10G SFP 1 Shielded 2.5GbE PoE In 802.3at, Passive PoE, DC Watchdog, Schedule Reboot Covers 140 m 1,500 ft 300 Co...
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Regulatory Compliance_ **AP11000** FCC compliance information statement Product
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Shenzhen Cudy Technology Co., Ltd. Address: 7/F, Lepu Tower West , 6...
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[Cudy Networking Equipment Catalog - Routers, Mesh Systems, Switches, and More](#)

Explore the comprehensive Cudy catalog featuring advanced Wi-Fi 7 and Wi-Fi 6 routers, Mesh Wi-Fi systems for seamless home coverage, high-speed switches, access points, 4G/5G routers, industrial networking solutions, and accessories.

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[Каталог сетевого оборудования Cudy](#)

Полный каталог сетевых решений Cudy, включая роутеры, Mesh-системы, устройства Wi-Fi 7, 4G/5G роутеры, коммутаторы, точки доступа и многое другое.

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