cudy

Model: TR3000

AX3000

2.5G Wi-Fi 6
Mini VPN Travel Router

Compatible with 802.11ax/ac/a/b/g/n
Wi-Fi 6

WHOLE HOME MESH

cudy
Download on the **App Store**
GET IT ON **Google Play**

Easy Setup with Cudy App

Datasheet

USB 3.0   LAN   2.5G WAN   Power

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Wi-Fi6
Next Generation WiFi 6

1.3GHz
Dual Core Processor

MediaTek Filogic 820

160 MHz Bandwidth
Streaming Network for Multi-Devices

AX3000
Extremely-Fast WiFi

2.5Gbps
WAN Port

MU-MIMO

Dual-Band

Wi-Fi 6 - The Most Powerful Wi-Fi Ever

4X
more capacity

Mobile Phone | Pad | laptop | game | IP camera | TV | Smart bulb | Smart speaker | Mobile Phone | Robotic Vacuum

150%
increase in data throughput

AX3000   2976Mbps
AC1200   1167Mbps

100%
backwards compatibility

8K

6   5   4

Why Travel Router?

80 mm (3.15")

118 mm (4.65")

USB 3.0

Flash Drive   Portable Drive   NAS

Lighter, Smaller than Phones

Weighs only 160 g (5.64 oz.) with a pocket-size design.

Power with your Laptop

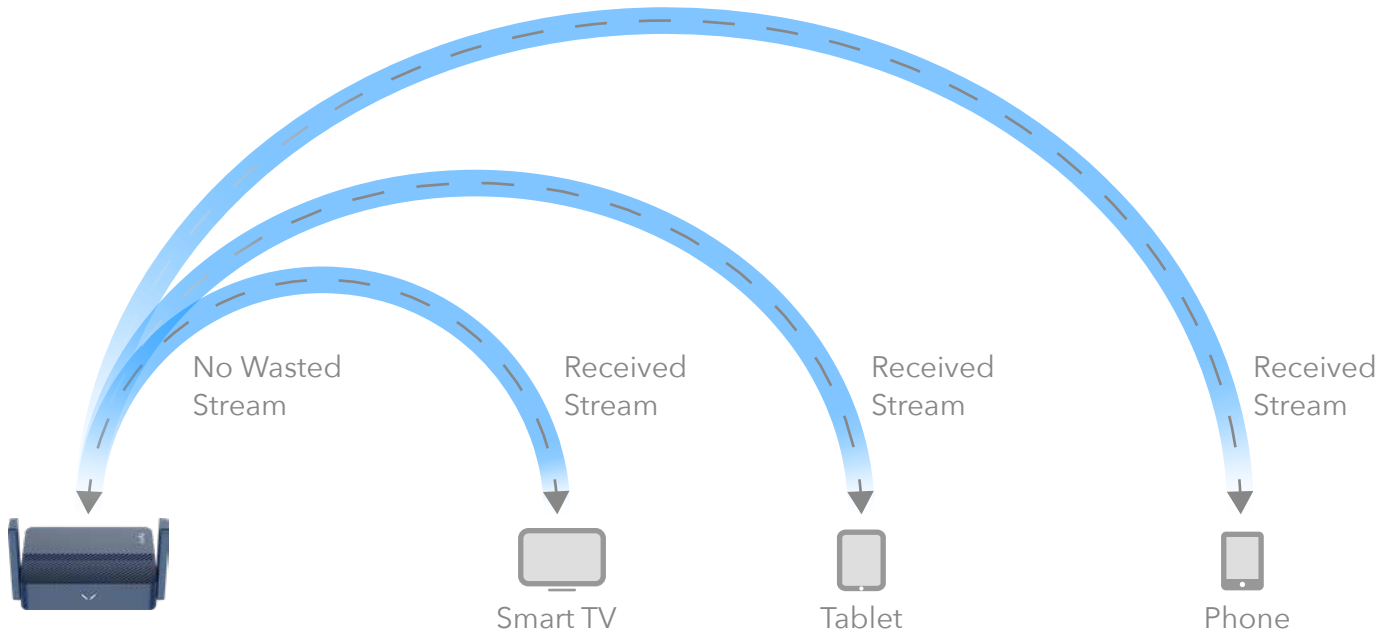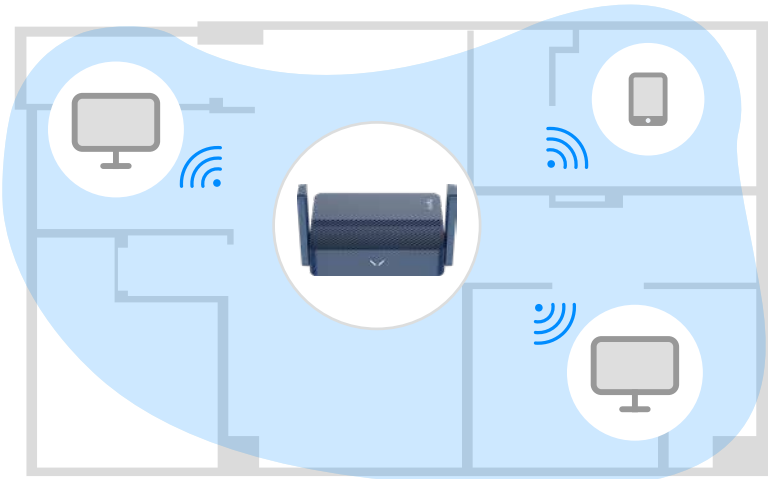Power it with your laptop or phone charger through the USB-C Power Jack.

VPN   LED Control

PD Charger   Laptop   Power Bank

Click! Your VPN is On.

A configurable switch allows you to quickly toggle the VPN.
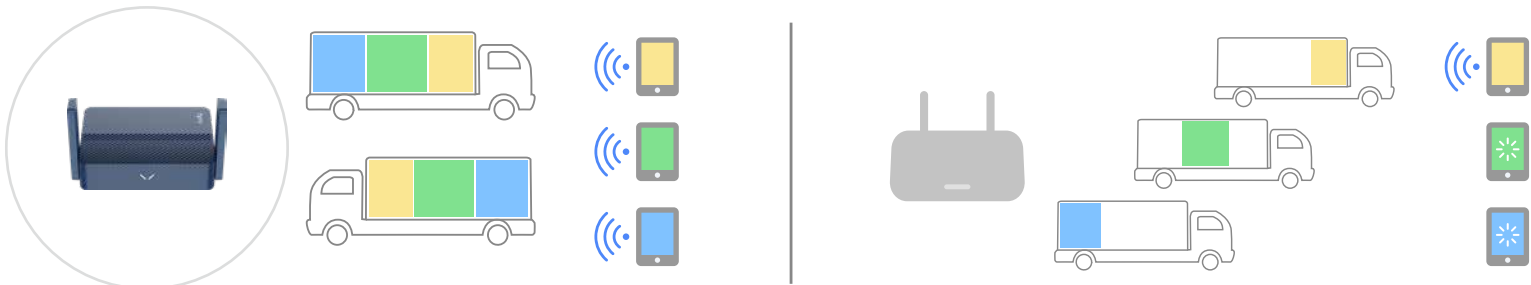
Host Your Own NAS

Plug in your drive to host your cloud station.

Other Features

Extensive Coverage: Beamforming, and four antennas combine to deliver focused reception to devices far away.
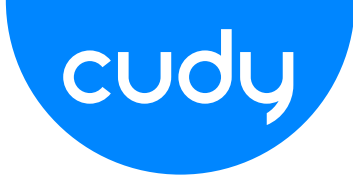
No Wasted Stream   Received Stream   Received Stream   Received Stream

Smart TV   Tablet   Phone
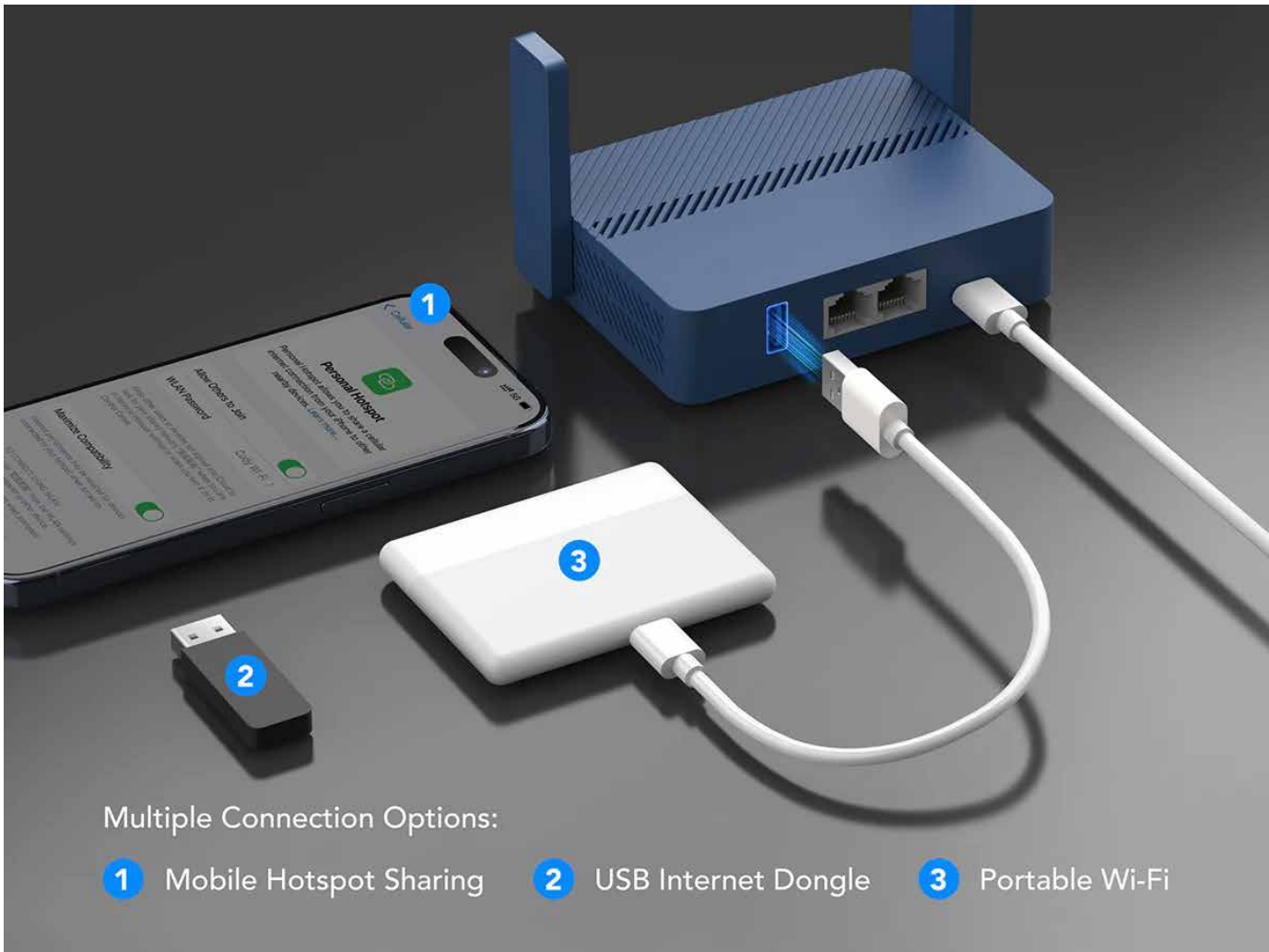
DL/UL MU-MIMO

DL/UL OFDMA   Without OFDMA

More Devices: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.

Popular Utilities

Multiple Connection Options:

1. Mobile Hotspot Sharing
2. USB Internet Dongle
3. Portable Wi-Fi

Massive **128 MB Flash Storage**
Unleashing Infinite Possibilities

ROM 128MB

RAM 512MB

USB Tethering

Simply connect a 4G/5G USB dongle to the TR3000, and instantly turn it into a high-speed Wi-Fi hotspot. Stay stable and fast, ensuring effortless travel and seamless access to high-speed internet wherever you go

Customize It

T his router empowers seamless network customization and feature expansion. Designed to meet diverse advanced application demands, it delivers unparalleled flexibility to unlock your router's full potential

Highlights

A USB-C powered mini WiFi 6 router ideal for encrypt connections back to the office, sharing paid WiFi, and hosting a file server.

- 1.3 GHz Dual-Core CPU
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 1× 2.5GbE and 1× GbE
- 1× USB 3.0 Port
- Powering via USB-C
- 160 g (5.64 oz.)
- Cudy Mesh, VPN Server and Client
- Cudy App, Cloud Control

Package Content

- TR3000
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Features

CPU	Chipset	MT7981
	CPU Details	1.3 GHz Dual-Core, ARM Cortex-A53
Memory /Storage	Flash/ROM	128 MB (1 Gbit) NAND
	DDR/RAM	512 MB (4 Gbit) DDR3
Wireless	5 GHz Wi-Fi Speed	2402 Mbps
	2.4 GHz Wi-Fi Speed	574 Mbps
	5 GHz Wi-Fi Streams	2T2R (2×2 MIMO) with an extra stream
	2.4 GHz Wi-Fi Streams	2T2R (2×2 MIMO)
	Wi-Fi Antennas	4x Fixed
	5 GHz Antenna Gain Max	4.8dBi
	2.4 GHz Antenna Gain Max	3.9dBi
	FEM or PA/LNA	5 GHz: 3× Internal
		2.4 GHz: 2× Internal
	Beamforming	True
	Range Performance	Max: 180 m (787 ft)
		Indoor WiFi range varies depending on the layout and wall materials.
	Wall Performance	Two wooden walls with thickness<10 cm (4'')
		One concrete wall with thickness<20 cm (7'')
		or two concrete walls with thickness<10 cm (4'')

Hardware Specs

Interfaces	2.5 Gbps RJ45 WAN Ports	1
	Gigabit LAN Ports	1
	USB-A 3.0 Ports	1
	LED	System
	Physical Buttons	WPS Button
		Reset Button
	Power Input	USB-C Port
Power	Power Methods	DC/PD
	DC	5V 3A
	Power Adapter	Input: 100 ~ 240 V, 50/60 Hz AC
		Output: 5V 3A DC
	Max Power Consumption (W)	11.5W
	Idle Power Consumption (W)	4.2W
Reliability	Environment	Operating Temperature:
		0 °C ~ 40 °C (32 °F ~104 °F)
		Storage Temperature:
		-40 °C ~ 70 °C (-40 °F ~ 158 °F)
		Humidity: 10% ~ 90% non-condensing
		Storage Humidity: 5% ~ 95% non-condensing
Mechanical	Installation	Desktop
	Dimension	118×80×27.5 mm
		4.65×3.15×1.08 inches
	Weight	160 g (5.64 oz.)

Ordering Information	Retail Package Weight	413 g (14.57 oz.)
	Retail Package Dimension	176×140.5×56 mm
		6.93×5.53×2.2""
	Units per Carton	160 g (5.64 oz.)
	Carton Dimension	60×30×37.5 cm
		23.62×11.81×14.76"
	Carton Gross Weight	17.4 kg (38.36 lbs)
	Carton Net Weight	16.5 kg (36.38 lbs)

Software Specs

Wireless	Wi-Fi Standards	Wi-Fi 6
	Max Wi-Fi Modulation	1024-QAM
	Wi-Fi Efficiency	OFDMA, MU-MIMO
		BSS Color
	Max Capacity	512
	Recommended Client Upper Limit	200
	Max Wi-Fi Channel Width	160 MHz
	Wi-Fi Security	WPA/WPA2/WPA3
	Guest Network	2.4 GHz, 5 GHz
	WPS	True
General	Operation Modes	Wi-Fi Router
		Access Point
		Range Extender
		WISP
		Client

Software Specs

General				Network			
	Mesh	Cudy Mesh			TTL Customization	Extend	
	Mesh Backhaul	Wireless Backhaul				Spoof	
		Wired Backhaul				Custom	
	Multi-Band Backhaul	true			IGMP	IGMP Proxy	
	WAN Mode	DHCP				IGMP Snooping	
		Static IP			Forwarding	Port Forwarding	
		PPPOE				Port Triggering	
	Internet Failover Sequence	WAN				UPnP	
		WISP				DMZ	
Network	QoS	Per-User Rate Limiting			Firewall	SPI Firewall	
	DHCP	Address Reservation				DoS Protection	
		DHCP Client List				Block PING	
		Server			Application Layer Gateway	IPSec Passthrough	
	IP Versions	IPv4/IPv6				L2TP Passthrough	
	IPv6 Protocols	Relay				PPTP Passthrough	
		Dynamic (SLAAC/DHCPv6)				FTP Passthrough	
		Staic (Fixed IP)				TFTP Passthrough	
		Passthrough				H323 Passthrough	
		464XLAT				SIP Passthrough	
		MAP-E				RTSP Passthrough	
		DS-Lite		**Utilities**	VPN Server	WireGuard	
	IPTV/VLAN	Bridge				OpenVPN	
		Tag VLAN				IPsec	
						Zerotier	
						PPTP	
						L2TP	

Software Specs

Utilities	VPN Client	WireGuard
		OpenVPN
		IPsec
		Zerotier
		PPTP
		L2TP
	DNS Options	DNS over TLS
		Manual DNS
		Rebind Protection
		Override Clients' DNS
	DNS over TLS Providers	Cloudflare
		Google
		Quad9
		Custom
	Wake on LAN	True
	Online Detection	True
Management	All Devices Management	Wi-Fi Time Schedule
		MAC Filter
		IP/MAC Binding
	Per-Devices Management	Intenent On/Off
		VPN On/Off
		Online Time Schedule
		Device Rename
	Content Management	Domain Filter
		IP Filter

System	Local Control Method	Config Web Page
		App Control
	Remote Control Method	Config Page via HTTPS
		App Control
		TR069/TR098/TR111/TR181
	Firmware Upgrade	Local Update
		App (Over the Air)
		Online Update
	Reliability	Timed Reboot
		Backup and Restore
	Diagnostic Tools	Diagnosis
		Ping
		Traceroute
		NSLookup
		System Log
	Languages	• English • Bengali • Catalan • Czech
		• German • Greek • Spanish • French
		• Hebrew • Italian • Croatian • Hungarian
		• Khmer • Korean • Dutch • Japanese
		• Russian • Slovak • Swedish • Romanian
		• Turkish • Vietnamese • Thai • Ukrainian
		• Polish • Norwegian • Portuguese
		• Simplified Chinese • Traditional Chinese

Software Specs

Dashboard	Panel	Internet Status
		Mesh Status
		Devices Management
		WAN Status
		LAN Status
		WISP Status
		Wi-Fi Status
		VPN Status
		DHCP Server Status
		System Version
	Charts	Mesh Topology
		Internet Speed
		WISP Speed
		Wi-Fi Speed