Vilo Data Sheet

vilo for ISPs

The Vilo Mesh Wi-Fi System is an easy-to-use, secure, and affordable Wi-Fi solution for everyday home use. A subscriber's network can be set up in a matter of minutes and is easily controlled from a smartphone via the Vilo app. Vilo's mesh routers offer whole-home coverage and can connect to over one hundred devices at a time. The Vilo ISP Management Portal allows service providers to provision, monitor, and manage their subscribers' Wi-Fi experience from anywhere.
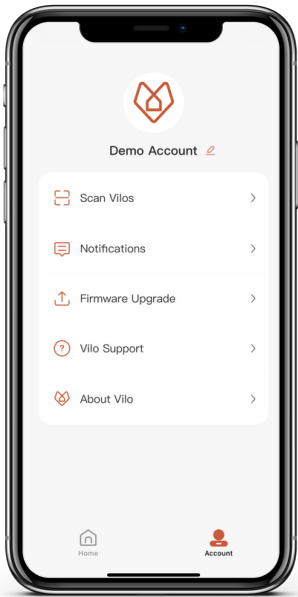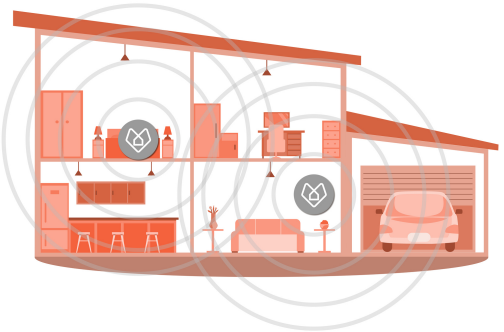
Key Vilo Features

Scalable Coverage

- Vilo offers coverage from 1,500 sq. ft. per single Wi-Fi 5 unit to 2,000 sq. ft. per single Vilo 6 unit.

- A 3-pack of Wi-Fi 5 Vilos can cover up to 4,500 sq. ft. and a Vilo 6 2-pack covers up to 4,000 sq. ft.

- Each Wi-Fi 5 router can connect up to 68 devices at a time, and each Vilo 6 can connect up to 128 devices.

Fast Speed

- Fast & reliable Wi-Fi with speeds of up to 1.2 Gbps with the Vilo 6 mesh system

- Dual band optimizes Wi-Fi performance with band steering and separation

Easy Set-Up

- Setup is straightforward using the Vilo app and can be completed within a few minutes.

App Control

- Network settings & features, such as Guest Wi-Fi, can be easily managed via the Vilo app.

- With a quick swipe, users can block unrecognized devices from connecting to the network.

Parental Controls

- Users can set time limits for online activities and blacklist websites with inappropriate content.
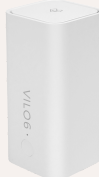
Vilo single and 3-pack

1 Vilo Mesh Wi-Fi Router
1 Power Adapter
1 Quick Start Guide

3 Vilo Mesh Wi-Fi Routers
3 Power Adapters
1 Ethernet Cable
1 Quick Start Guide

Vilo 6 single and 2-pack

1 Vilo 6 Mesh Wi-Fi Router
1 Ethernet Cable
1 Power Adapter
1 Quick Start Guide

2 Vilo 6 Mesh Wi-Fi Routers
1 Ethernet Cable
2 Power Adapters
1 Quick Start Guide

ISP Management Portal

Improve Your Subscriber Experience
- From the web user interface, you can easily check SSID, password, network status, connected devices, and much more.
- You can remotely push and schedule firmware upgrade, restarts, and resets.
- We use proprietary algorithms to detect interference and allow you to select channels and channel widths to optimize your network.

Better Network Insights
- Remotely manage your subscribers' networks and settings
- Run speed tests, view historical trends, and check usage reporting
- Access easily via APIs

Easy to Use
- Our web user interface is intuitive & easy to navigate
- You can quickly & securely provision Vilos with our remote configuration feature

We're Here to Help
- We offer support through email, chat, and phone
- You can join our ISP-specific Facebook group & email newsletter to receive the latest updates

Vilo (AC1200) Tech Specs

Wi-Fi	
Standard	IEEE 802.11a/b/g/n/ac
Frequency	Simultaneous dual-band (2.4 GHz/5 GHz) 2.4 GHz features Frequency bands: 2412 MHz - 2462 MHz 20, 40 MHz channel widths 5 GHz Features Frequency bands 5180 MHz - 5240 MHz; 5745 MHz - 5805 MHz 20, 40, 80 MHz channel widths
MIMO	2x2 MU-MIMO
Security	WPA2 encryption Automatic security updates
Other Wi-Fi Features	Automatic 802.11 k/v client roaming Transmit beamforming
Band Steering	Yes
Ports	(3) Gigabit Ethernet Ports
Speed	AC1200 (300 Mbps on 2.4 GHz; 867 Mbps on 5 GHz)*
Coverage	Up to 1500 sq ft per unit (or up to 4500 sq ft with a 3-pack)
Modulation	11b: DSSS:DBPSK(1Mbps), D-QPSK(2Mbps), CCK(5.5/11Mbps) 11a/g: OFDM:BPSK(6/9Mbps), QPSK(12/18Mbps), 16QAM(24/36Mbps), 64QAM (48/54Mbps) 11n: MIMO-OFDM:B-PSK, QPSK,16QAM,64QAM

Performance and Capacity	
Peak Phy Rates	2.4 GHz: 300 Mbps 5 GHz: 867 Mbps
Memory	128 MB RAM 16 MB NOR Flash
Processor	999 MHz MIPS
Maximum TX Power	21 dBm
Antenna Gain	2.4 GHz: 6 dBi 5 GHz: 5 dBi

Vilo (AC1200) Tech Specs

Management Tool	
ISP Interface	Vilo ISP Management Portal
End User Interface	iOS/Android app (iOS 9.0+, Android 8.0+)

Physical Characteristics	
Dimensions	70 mm x 70 mm x 150 mm (2.7 x 2.7 x 5.9 in)
Weight	319 g (0.7 lb)
Color	White
Finish	Matte
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	5 to 95%

Other	
Voltage	100 - 240V AC
Power	12V, 1A power adapter
Certifications	FCC, IC

*Recommended Max ISP speed: 500 Mbps

Vilo 6 (AX1800) Tech Specs

WiFi	
Standard	IEEE 802.11a/b/g/n/ac/ax
Frequency	Simultaneous dual-band (2.4GHz/5GHz) 2.4 GHz Features Frequency bands: 2412 Mhz - 2462 MHz 20, 40 MHz channel widths 5 GHz Features Frequency bands: 5180 Mhz - 5240 Mhz; 5745 MHz - 5805 Mhz 20, 40, 80 Mhz channel widths
MIMO	2x2 MU-MIMO
Security	WPA3 encryption Automatic security updates
Other Wi-Fi Features	Automatic 802.11 k/v/r client roaming Transmit beamforming
Band Steering	Yes
Ports	(3) Gigabit Ethernet Ports
Speed	AX1800 (600 Mbps on 2.4 GHz; 1200 Mbps on 5 GHz)*
Coverage	Up to 2000 sq ft per unit (or up to 4000 sq ft with a 2-pack)
Modulation	11b：DSSS:DBPSK(1Mbps，D-QPSK(2Mbps),CCK(5.5/11Mbps) 11a/g:OFDM:BPSK(6/9Mbps),QPSK(12/18Mbps),16-QAM(24/36Mbps),64-QAM(48/54Mbps) 11n:MIMO-OFDM:B-PSK,QPSK,16-QAM,64-QAM 11ac:MIMO-OFDM:B-PSK,QPSK,16-QAM,64-QAM,256-QAM 11ax：B-PSK,QPSK,16-QAM,64-QAM,256QAM,1024-QAM

Performance and Capacity	
Peak Phy Rates	2.4GHz: 600 Mbps 5 GHz: 1200 Mbps
Memory	256 MB 16 MB NOR flash
Processor	880 MHz MT7621AT, Dual-core MIPS1004Kc
Maximum TX Power	21 dBm
Antenna Gain	2.4 GHz: 6 dBi 5 GHz: 5 dBi

Vilo 6 (AX1800) Tech Specs

Management Tool

ISP Interface	Vilo ISP Management Portal
End User Interface	iOS/Android app (iOS 9.0+, Android 8.0+)

Physical Characteristics

Dimensions	70 mm x 70 mm x 150 mm (2.7 x 2.7 x 5.9 in)
Weight	272 g (0.6 lbs)
Color	White
Finish	Matte
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	10 to 90%

Other

Voltage	100 - 240V AC
Power Method	12V, 1A power adapter
Certifications	FCC, IC

*Recommended Max ISP speed: 1 Gbps

" This mesh Wi-Fi brings internet connectivity to every corner of your home at a startingly low price "

WIRED

" This is the cheapest way to get good mesh Wi-Fi in your home "

GIZMODO

" The Best Mesh Wi-Fi Networking Kits "

Wirecutter

" [Vilo Mesh is] easy to install and brings Wi-Fi to every corner of your home for significantly less money than any other three-piece mesh network "

PC PCMAG.COM

" The best mesh Wi-Fi routers of 2021 "

CNN

" This […] system from Vilo delivers a strong, consistent signal for cheap "

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