

Pepwave Surf



Features

The Ultimate User Friendly, Long Range CPE

The Pepwave Surf was designed from the ground up for optimal performance in long range and high noise environments. Our TruePower radio engineering consistently gives you more power at high data rates than any other CPE on the market.



Service Provider Specific features

No other CPE on the market has as many service provider features as the Surf. Signal bar LEDs, Bandwidth Controls, Bandwidth Testing, Firewall, Home Wi-Fi Router, Home Wi-Fi Router Usage Reports, Remote Disconnect, Remote Diagnostics... Used with InControl, you can manage all your customer devices in one simple interface. Send us an inquiry to learn more about our service provider features.

Multi-Zone Function

The Surf AP will serve as your connection to a nearby Wi-Fi network and will also broadcast a private Wi-Fi network for wireless laptops and PDAs in your home. Users have the freedom to choose custom names and security for their home Wi-Fi connection, regardless of what Wi-Fi network they are connected to.



Indoor and Outdoor Models

With 200mW and 400mW indoor models and our outdoor Surf 400-DX, we have options for connecting even the toughest locations.

Surf – Indoor Series

The user-friendly and standards-based Pepwave Surf Indoor Series of Wi-Fi modems extend Citywide Wi-Fi to indoor areas. To help find the best location with the strongest signals, built-in signal bars that display the signal strength in real-time come standard with all Pepwave Surf models.

Integrated Home Wi-Fi Access Point, on Surf AP E200, 200, and 400, relays the Wi-Fi signal to an indoor local area network via 802.11b/g Wi-Fi in addition to standard Ethernet.



Applications

The Defacto Choice for Citywide Wi-Fi CPE

The Pepwave Surf has been designed from the ground up for optimal performance in large scale Wi-Fi networks. Because of our extensive service provider features, it has been used in more Citywide Wi-Fi networks than any other CPE on the market.



MDU, Condo, Apartment, Dormitory, Hospitality Internet Service CPE

With the Surf you can deploy Internet services to large buildings quickly and reliably. Our TruePower RF engineering means you will have to deploy less APs, and you can easily overcome interference and difficult building materials. The Surf gives your customers the broadband experience they expect.

Portable Travel Wi-Fi Booster

Finding Wi-Fi when you are on the road can be a frustrating experience; interference and inconsistent signal can bring your surfing speed to a crawl. The Surfs TruePower RF engineering ensures you will get consistent signal, and you can connect an Ethernet device to a wireless service as well.

Connect and Share Internet Connections at



Hotspot



Hotel



Marina



RV Park

Surf – DX Series

The Pepwave Surf DX series house an integrated directional patch antenna inside a rugged outdoor enclosure (rated at NEMA 6, IP67). This can maintain reliable service to the most challenging locations. Households far away from the nearest access point in a city or rural Wi-Fi networks are locations that will greatly benefit from Surf DX's extreme range.

With an exterior signal meter, flexible mounting options, and a 1-wire feed, the Surf DX series are easy to deploy in almost any location.



Specifications

Model	Surf mini	Surf 400	Surf 400-DX
Product Code	SPW-212	SPW-400	SPW-408
Functionality			
Wi-Fi Receiver		✔	
Wi-Fi AP Mode	✔	✔	
NAT Mode			
Wi-Fi Specification			
WAN	802.11 b/g		
LAN	802.11 b/g 1 Fast Ethernet Port	802.11 b/g 1 Fast Ethernet Port	1 Fast Ethernet Port
Operating Frequency	2412-2462Mhz	2412-2462Mhz	2412-2462Mhz
Transmit Power 802.11b	200mW 23dBm@1Mbps 23dBm@2Mbps 23dBm@5.5Mbps 23dBm@11Mbps (+/-1.0dB)	400mW 26dBm@1Mbps 26dBm@2Mbps 26dBm@5.5Mbps 26dBm@11Mbps (+/-1.0dB)	400mW 26dBm@1Mbps 26dBm@2Mbps 26dBm@5.5Mbps 26dBm@11Mbps (+/-1.0dB)
	23dBm@6Mbps 23dBm@9Mbps 23dBm@12Mbps 23dBm@18Mbps 23dBm@24Mbps 23dBm@36Mbps 21dBm@48Mbps 20dBm@54Mbps (+/- 1.0dB)	26dBm@6Mbps 26dBm@9Mbps 26dBm@12Mbps 26dBm@18Mbps 26dBm@24Mbps 24dBm@36Mbps 22dBm@48Mbps 21dBm@54Mbps (+/- 1.0dB)	26dBm@6Mbps 26dBm@9Mbps 26dBm@12Mbps 26dBm@18Mbps 26dBm@24Mbps 24dBm@36Mbps 22dBm@48Mbps 21dBm@54Mbps (+/- 1.0dB)
Receive Sensitivity 802.11b	-96dBm@1Mbps -95dBm@2Mbps -94dBm@5.5Mbps -92dBm@11Mbps (+/- 1.0dB)	-97dBm@1Mbps -96dBm@2Mbps -95dBm@5.5Mbps -93dBm@11Mbps (+/- 1.0dB)	-97dBm@1Mbps -96dBm@2Mbps -95dBm@5.5Mbps -93dBm@11Mbps (+/- 1.0dB)
	-94dBm@6Mbps -92dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -82dBm@36Mbps -76dBm@48Mbps -74dBm@54Mbps (+/- 1.0dB)	-94dBm@6Mbps -93dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -83dBm@36Mbps -77dBm@48Mbps -75dBm@54Mbps (+/- 1.0dB)	-94dBm@6Mbps -93dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -83dBm@36Mbps -77dBm@48Mbps -75dBm@54Mbps (+/- 1.0dB)
Receive Sensitivity 802.11g OFDM	-94dBm@6Mbps -92dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -82dBm@36Mbps -76dBm@48Mbps -74dBm@54Mbps (+/- 1.0dB)	-94dBm@6Mbps -93dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -83dBm@36Mbps -77dBm@48Mbps -75dBm@54Mbps (+/- 1.0dB)	-94dBm@6Mbps -93dBm@9Mbps -91dBm@12Mbps -90dBm@18Mbps -87dBm@24Mbps -83dBm@36Mbps -77dBm@48Mbps -75dBm@54Mbps (+/- 1.0dB)
Security	802.1x, 64/128-bit WEP, WPA, WPA2, 802.11i		

Model	Surf mini	Surf 400	Surf 400-DX
	Hardware		
Signal Bars	✔		
Antenna	5dBi Omni Antenna		Built-in 12dBi Long Range Directional Antenna
Antenna Connector	RP-SMA Connector		Not Available
Enclosure	 Indoor Plastic Enclosure	 Indoor Plastic Enclosure	 Waterproof (IP67) Outdoor Plastic Enclosure
Dimensions	94W x 90D x 25.5H mm. 3.7W x 3.6W x 1H in.	137W x 119D x 40.5H mm. 5.4W x 4.7D x 1.6H in.	295W x 205D x 68H mm. 11.7W x 8.1D x 2.7H in.
Weight	95 g. 0.21 lb.	220 g. 0.49 lb.	0.875 kg. 1.93 lb.
	Operational Specifications		
Power Consumption (Max.)	5W	7W	7W
Power Input	AC Adapter: AC Input 100 to 240V, DC Output 12V		Pepwave Passive PoE Injector: DC 12V
Operating Temp. Humidity	-20~65°C / -4~149°F 15 to 95%		
	Misc.		
Certifications	CE, FCC, RoHS		
Warranty	One-Year Limited Warranty		
Package Content	<ul style="list-style-type: none"> • 12V Power Supply • 5dBi Omni Antenna • Windows Mount - Suction Cup x 2 • Setup Guide • Ethernet Cable 		<ul style="list-style-type: none"> • 12V Power Supply • Mounting Kit • Installation Guide • Pepwave Passive PoE Injector

City Wi-Fi Clients



Wireless Philadelphia
(City of Philadelphia, PA)



Google Wi-Fi
(City of Mountain View, CA)



goMoorhead
(City of Moorhead, MN)



City of Lompoc, CA



Ponca City, OK



City of Chaska



City of Southaven, MS



City of Savannah, GA



City of Oklahoma City, OK

About Pepwave

Pepwave is the proven market leader in delivering specialized wireless solutions for industrial networking, wireless mobility, service providers, and professional hotspots. As an innovator of wireless technology solutions, Pepwave operates globally in cooperation with distributors, system integrators, ODM partners, and strategic alliances.

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