WaveCore[®] 1000-RH



The WaveCore 1000-RH is the world's first wireless bridge that penetrates concrete and brick at gigabit speeds. Designed as a complement to the WaveTunnel, together the two products enable wireless indoor backbones that can be deployed in any building, any floorplan, anywhere.

The system combines a high-performance front end enabling multi-gigabit data rates through 12" or more of concrete. The bridge can be configured quickly by using our Smartphone App, AirvineMobile[™] or the browser version, VineManager[™].

The WaveCore is designed to go through walls as well as ceilings and floors. Penetrating any barrier constructed of brick or concrete are the target applications for this product. Like the WaveTunnel, this system can be employed in a variety of applications or markets. With the WaveCore you no longer need to core drill with the attendant x-rays, inspections and drilling. Acting as a simple bridge, the system ships in pairs – 2 units per box.

WaveCore is ideal for a multitude of applications, a sampling is listed here:

- Connecting Fire Control rooms
- Network rooms with concrete walls
- Building floors/ceilings eliminating the need for risers
- Firewalls
- Anywhere you need to get through a concrete wall or barrier without relying on core drilling

When combined with the WaveTunnel, the systems enable complete wireless indoor backbones to be upgraded or extended in hours in any building, with any floorplan. No more cables, conduits and the attendant construction disruption – mount, power and walk away. It's that simple.





MECHANICAL

Dimensions	257mm x 68mm x 261mm (10.1" x 2.7" x 10.3"), not including bracket
Weight	4 lbs (1.8kg) (not including bracket)
Enclosure Materials	ABS/PC with aluminum heatsink
Mounting	Wall, Ceiling, Acoustic Ceiling supported. Short ceiling/wall mounting brackets are included
HARDWARE	
Networking Interface	1 x RJ45 Ethernet port, 1, 2.5, 5, 10Gbps, PoE PD Input 1 x SFP+ Ethernet Port (up to 10Gbps), Optional Feature License
RF Connections	1 x 6 GHz radio with directional antenna 1 x 2.4 GHz Wi-Fi radio with omni antenna (802.11b/g/n Wi-Fi radio for management)
Power Consumption	36 Watts
Power Input Voltage & Max Current	12 VDC Input Voltage Range:12 VDC Typical, 11 VDC to 13 VDCMax Current: 3.3 A48 VDC PoE Input Voltage:42 to 57 VDCMax Current: 1.2 A
Power Input Connector	Accepts circular 2.1mm ID / 5.5mm OD power connectors. Outside +, Inside -
Operating Temperature	-20°C – +55°C
Humidity	5% to 95%, non-condensing

REGULATORY

RF	6 GHz: 2.4 GHz:	FCC 15.255, ISED RSS-248, EN 303 687 FCC 15.247, ISED RSS-247, EN 300 328
EMC, Exposure	EMC: Exposure:	FCC Part 15, ICES-003, EN 301-489-3, EN 62311 FCC 2.1091, RSS-102, EN 62311
Safety	EN/IEC/UL 6	2368-1 Rev 3, CE Mark, RED
Environmental	RoHS, REACH	I, WEEE

SOFTWARE

os	VineOS™
Operating Mode	Point-to-Point Bridge Mode
Services	NTP client, FTP client (for software download)
Tools	Antenna Alignment Tool
Software Management	VineManager: HTTPS Web GUI
Minimum Software Requirements	Web Browser
Networking Support	VLAN Transparent Pass Through, Management VLAN
SYSTEM	
SYSTEM Concrete Penetration	Up to 12 Inches / 30 cm of Concrete
	Up to 12 Inches / 30 cm of Concrete WPA3-SAE (AES)
Concrete Penetration	
Concrete Penetration Encryption	
Concrete Penetration Encryption RF 6 GHz	WPA3-SAE (AES)

* Specifications subject to change without notice

** Frequency Band support will vary based on the country of operation.