



The Avwatch VEH200.x Vehicle Kit provides a Line of Site (LoS) Mobile Ad Hoc Networking (MANET) datalink capability utilizing Wave Relay® MPU5 technology to ensure your sensor data is efficiently and consistently received and distributed.

Avwatch delivers a turnkey system that can stand completely alone or seamlessly integrate with existing IP networks.

With built-in video encoding and decoding, it's never been easier to distribute a dash cam stream or view streaming aerial video feeds from nearby aircraft, all of which increase situational awareness to everyone in the network. With a variety of form factors, Avwatch's Vehicle Kit can be housed in a server rack configuration for permanent installs or be made portable allowing for the same kit to be used in any number of vehicles.

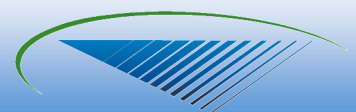


The VEH200.x uses the Wave Relay® MPU5 to unite critical data sources in real-time, providing an end user with the situational awareness needed to make critical decisions.



VEH200.3

Part Number	Description
VEH200.1	Vehicle Kit in a Standard 19" Server Rack
VEH200.2	Vehicle Kit in a Standard 19" Server Rack Drawer
VEH200.3	Vehicle Kit in a Ruggedized Carry Case



Key Features & Capabilities

- **Interchangeable Frequency Modules.** By having the option to rapidly install different Frequency Modules, your solution is both cost effective and future proof, providing high reliability in complex environments.
- **Onboard Android™ OS.** Install existing Android apps or run custom apps natively right on your Vehicle Kit. The VEH200.x is your computer.
- **Stream HD Video.** Integrated H.264 HD video encoding/decoding with the ability to view multiple feeds simultaneously.
- **Voice Communication.** Up to 16 VoIP channels, and Radio over IP (RoIP) functionality.
- **Unprecedented Throughput at Distance.** By utilizing 3x3 Multiple Input Multiple Output (MIMO) technology on multiple antennas, the VEH200.x provides the additional Mbps needed to stream multiple HD video feeds and other data through a network. With 6 watts of transmit power, MIMO allows for maximal ratio combining and spatial multiplexing providing high reliability in complex environments.

Specifications

POWER

Input Power	8-36 VDC
Amperage	12A at Start/ 9A Nominal (12VDC)
Power	108W Nominal

ENVIRONMENTAL

Temperature Environment	-5° to 85° C
Water Resistant	Ruggedized for Outdoor Use
Submersible	Yes
	No

RADIO

Frequencies	See <i>Frequency Modules</i>
Power Output	6 watts, (2 watts, 3 chains)
Impedance	50 Ω
Range	100+ Nautical Miles *Antenna and Environment Dependent

DIMENSIONS

VEH200.1 & 2	Rack Space	4U
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DIMENSIONS

VEH200.3	Length	15 in
	Width	10.5 in
	Height	6.2 in
	Weight	30 lbs

CONNECTIONS

RF Connections	N-f (x3)
Wave Relay Ports	RJ45 (x2)
Voice	NATO 6-pin
Power In	Amphenol PT06A-8-4S(025)
GPS Antenna	SMA-f
Video In	BNC-f
Video Out	HDMI-f
Accessories	USB Type A

Frequency Modules*

Part Number	Description
RAD1100	L-Band Radio Module 1350-1390 MHz
RAD2100	S-Band Radio Module 2200-2500 MHz
RAD3100	C-Band Low Radio Module 4400-5000 MHz
RAD3110	C-Band High Radio Module 5000-6000 MHz

*Frequency Modules are each sold separately

Accessory Kits

Part Number	Description
ACC1100	Multiple L-Band Antenna options, RF Cables, Mag Mounts, 7" HDMI Monitor
ACC2100	Multiple S-Band Antenna options, RF Cables, Mag Mounts, 7" HDMI Monitor
ACC3100	Multiple C-Band Low Antenna options, RF Cables, Mag Mounts, 7" HDMI Monitor
ACC3110	Multiple C-Band High Antenna options, RF Cables, Mag Mounts, 7" HDMI Monitor

Accessory Kits are most often paired with VEH200.3

