



The Avwatch AIR200.x provides a Mobile Ad Hoc Networking (MANET) datalink capability utilizing Wave Relay® MPU5 Multiple Input Multiple Output (MIMO) technology. By harnessing multiple antennas on both the air and ground assets, the MIMO datalink achieves unprecedented throughput allowing an end user more options than ever before. The AIR200.x comes in a variety of form factors to meet mission requirements and handles all the complexities of a rapidly changing airborne network providing the end user a simple, turn-key solution.

With a variety of situational awareness tools built in, like video encoding and Voice over IP (VoIP), the AIR200.x delivers real-time, accurate data generated by external devices from an end user to everyone on the network.

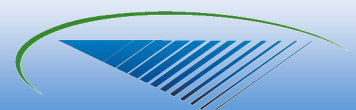


The AIR200.x uses the Wave Relay® MPU5 to unite critical data sources in real-time, providing an end user with the situational awareness needed to make critical decisions.

Part Number	Description
AIR200.1	Air Kit in a Standard 19" Server Rack
AIR200.2	Air Kit in a Standard 19" Server Rack Drawer
AIR200.3	Air Kit in a Ruggedized Carry Case



AIR200.3 Ruggedized Carry Case



Key Features & Capabilities

- **Aviation Certified.** Aviation grade wiring and hundreds of flight hours both in testing and operational scenarios.
- **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 AIR200.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 Over Distance.** By utilizing 3x3 Multiple Input Multiple Output (MIMO) technology on multiple antennas, the AIR200.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.
- **Turnkey Solution.** The purpose of the AIR200.x is to take all the complexities of a network and make one simple solution, allowing an end user to focus on getting the job done.

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

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

AIR200.1 & 2	
Rack Space	2U

DIMENSIONS

AIR200.3	
Length	15 in
Width	10.5 in
Height	6.2 in
Weight	35 lbs

CONNECTIONS

RF Connections	N-f (x3)
Wave Relay Ports	RJ45 (x2)
WAN Port	RJ45 (1)
Voice	NATO 6-pin
Power In	Amphenol PT06A-8-4S(025)
Cellular Antennas	TNC-f (x2)
GPS Antenna	SMA-f
Video In	BNC-f
Video Out	HDMI-f
Accessories	USB Type A

