



VantagePegasus®

Wireless broadband communications for transportation system needs

Benefits of the Vantage Pegasus



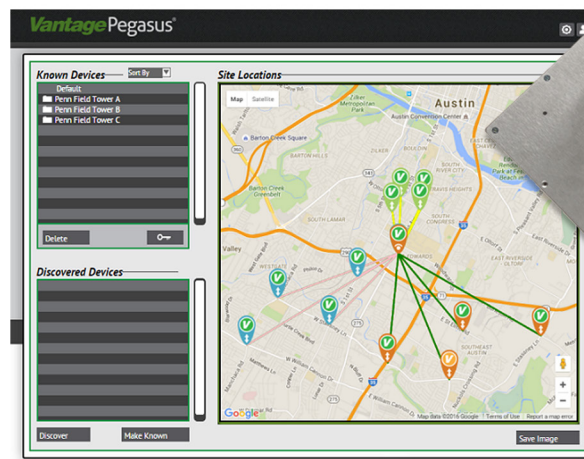
Built with carrier grade radio components that deliver unmatched wireless connectivity



Interoperable with existing wireless solutions from other vendors



Laptop or server-based, web-browser compatible



Failure to communicate is not an option

Trustworthy wireless service is demanded for transportation systems and its users. VantagePegasus wireless networks are built with carrier grade radio components that deliver unmatched wireless connectivity and the bandwidth for communications from remote sites to a centralized center.

VantagePegasus radios are certified to FCC, CE and NEMA standards and are designed and tested to withstand year-round weather conditions while delivering uninterrupted connectivity.

Radios support flexible non-licensed frequency bands: 900MHz, 2.4GHz, 4.9GHz, or 5.8GHz, flexible single-radio and dual radio configurations, and a range of antenna solutions to achieve distance, throughput, and reliability.

Single Radio (Non-integrated)

Attach antenna or antenna cable to an N-type connector

Dual Radio (Non-integrated)

Pick frequency band for each radio to create wireless Hotspots or relay station

Integrated Radio

- Single radio or dual radio configuration
- Built-in directional antenna
- Low wind resistance

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Dependable, robust wireless systems for:

- Roadway video detection
- Live streaming video to TMC
- Wireless controller interconnect
- City broadband wireless networks

SPECIFICATIONS

	900 MHz	2.4 GHz	4.9 / 5.8GHz	
WLAN Standard	n/a	802.11b/g	802.11a	802.11n
Radio Scheme	OFDM (64QAM, 16QAM, QPSK, BPSK)	OFDM (64QAM, 16QAM, QPSK, BPSK)	OFDM (64QAM, 16QAM, QPSK, BPSK)	
Frequency Range	902 – 928 MHz	2.400 – 2.500 GHz	4.940 – 4.990 GHz 5.725 – 5.875 GHz	
Integrated Antenna Gain	13 dBi	19 dBi	19 dBi (4.9 GHz) 23 dBi (5.8 GHz)	
Integrated Antenna Pattern	42° (V) x 42° (H)	18° (V) x 18° (H)	10° (V) x 10° (H)	8° (V) x 8° (H)
Front-to-Back Ratio	>20 dBi	>30 dBi	>40 dBi	
Cross Polarization	>25 dBi	>30 dBi	>30 dBi	
RF Output Power	Up to 28 dBm	Up to 27 dBm	Up to 27 dBm	
Receiver Sensitivity	-96 dBm (@ 3 Mbps) -94 dBm (@ 6 Mbps) -89 dBm (@ 12 Mbps) -77 dBm (@ 27 Mbps)	-94 dBm (@ 6 Mbps) -83 dBm (@ 36 Mbps) -77 dBm (@ 48 Mbps) -74 dBm (@ 54 Mbps)	-94 dBm (@ 6 Mbps) -83 dBm (@ 36 Mbps) -77 dBm (@ 48 Mbps) -74 dBm (@ 54 Mbps)	-96 dBm (@ 15 Mbps) -91 dBm (@ 60 Mbps) -77 dBm (@ 150 Mbps) -77 dBm (@ 300 Mbps)
Data Rate	1 Mbps, 3 Mbps, 6 Mbps, 9 Mbps, 18 Mbps, 27 Mbps	1 Mbps, 6 Mbps, 36 Mbps, 48 Mbps, 54 Mbps	6, 36, 48, 54 Mbps	15, 60, 150, 300 Mbps
Power Supply	18 VDC Passive POE	18 VDC Passive POE	18 VDC Passive POE	
Surge Protection	ESD: > 6kV Surge Handling: 8/20 uS (1kA)	ESD: > 6kV Surge Handling: 8/20 uS (1kA)	ESD: > 6kV Surge Handling: 8/20 uS (1kA)	
Operating Environment	-35° F to +165° F (-37° C TO +74° C)	-35° F to +165° F (-37° C TO +74° C)	-35° F to +165° F (-37° C TO +74° C)	
Kits Include	Radio unit, pole mounting bracket, POE power supply, 150 ft. (45 m) outdoor Ethernet cable	Radio unit, pole mounting bracket, POE power supply, 150 ft. (45 m) outdoor Ethernet cable	Radio unit, pole mounting bracket, POE power supply, 150 ft. (45 m) outdoor Ethernet cable	
Non-Kits Include	Radio unit, pole mounting bracket, POE power supply	Radio unit, pole mounting bracket, POE power supply	Radio unit, pole mounting bracket, POE power supply	
Non-Integrated Enclosure	15.4 x 15.4 x 3.2 inches (39.1 x 39.1 x 8.1 cm) 2.7 lbs (1.2 kg) 1.65 ft² (0.15m²) EPA	15.4 x 15.4 x 3.2 inches (39.1 x 39.1 x 8.1 cm) 2.7 lbs (1.2 kg) 1.65 ft² (0.15m²) EPA	13.3 x 13.3 x 3.2 inches (33.8 x 33.8 x 8.1 cm) 2.0 lbs (0.91 kg) 1.23 ft² (0.12m²) EPA	
Wind Survivability	125 mph (201 kph)	125 mph (201 kph)	125 mph (201 kph)	
Certification	FCC / CE	FCC / CE	FCC / CE	
Warranty	5 Years limited warranty	5 Years limited warranty	5 Years limited warranty	



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