



# VANTAGEPEGASUS<sup>®</sup>

*Wireless broadband communications for transportation system needs*

## **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.

Vantage – the name you can trust in vehicle detection equipment.



Innovation for better mobility





# VANTAGEPEGASUS®

*Superior wireless communications for demanding transportation system needs*

## 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

## Benefits

- Dependable, robust wireless systems deployed for Agency applications:
  - Video detection at intersections and freeways
  - Streaming video to the TMC
  - Wireless controller interconnect
  - City broadband wireless networks
  - Extend fiber networks
- Interoperable with existing wireless solutions from other vendors
- Various levels of security to ensure exclusive and secure access
- Intuitive management software to manage network performance from the main office

## SPECIFICATIONS

	900 MHz	2.4 GHz	4.9/5.8GHz
WLAN Standard	n/a	802.11b/g	802.11a
Radio Scheme	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)
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)	
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 Mbps, 36 Mbps, 48 Mbps, 54 Mbps
Power Supply	18 VDC Passive POE		
Surge Protection	ESD: > 6kV Surge Handling: 8/20 uS (1kA)		
Operating Environment	-22° F to +140° F (-30° C to +60° C)		
Kits Include	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		
Non-Integrated Enclosure	8.5 x 7.2 x 2.0 inches (21.6 x 18.3 x 5.1 cm) 2.0 lbs (0.91 kg)		
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 ft <sup>2</sup> (0.15m <sup>2</sup> ) 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 ft <sup>2</sup> (0.12m <sup>2</sup> ) EPA	
Wind Survivability	125 mph (201 kph)		
Certification	FCC / CE		
Warranty	5 Years		



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