



VantagePegasus®

Wireless broadband communications for transportation system needs

Benefits of the Vantage Pegasus



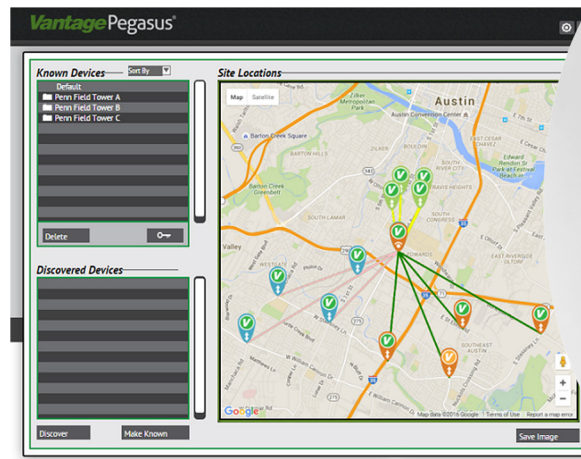
Built with carrier grade radio components that deliver unmatched wireless connectivity



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 2.4GHz or 5.8GHz unlicensed frequency bands with a range of antenna solutions to achieve maximum distance, throughput, and reliability.

Radio Configurations

- Connectorized radios with various antenna options
- Twistport radio with symmetrical horn antenna options

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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

| | 2.4 GHz | 5.8GHz |
|----------------------------|--|--|
| WLAN Standard | 802.11b/g | 802.11a (54 Mbps) 802.11n (150 Mbps) 802.11ac (300 Mbps) |
| Radio Scheme | OFDM (64QAM, 16QAM, QPSK, BPSK) | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ac: OFDM (MCS0-9) (Max 256QAM) |
| Frequency Range | 2.400 – 2.500 GHz | U-NII-3 5.725 – 5.85 GHz (US and Canada) |
| Integrated Antenna Gain | 19 dBi | Up to 23 dB |
| Integrated Antenna Pattern | 18° (V) x 18° (H) | 8° (V) x 8° (H) |
| Front-to-Back Ratio | >30 dBi | > 40 dBi |
| Cross Polarization | >30 dBi | > 30 dBi |
| RF Output Power | Up to 27 dBm | Up to 27 dBm adjustable |
| Receiver Sensitivity | -94 dBm (@ 6 Mbps) -83 dBm (@ 36 Mbps) -77 dBm (@ 48 Mbps) -74 dBm (@ 54 Mbps) | 802.11a: -94 +/- 1.5db @ 6 Mbps, -74 +/- 1.5db @ 54 Mbps 802.11n: -94 +/- 1db @ 6 Mbps, -74 +/- 1db @ 150 Mbps 802.11ac: -96 +/- 1db @ 30 Mbps, -72 +/- 1db @ 300 Mbps |
| Data Rate | 1 Mbps, 6 Mbps, 36 Mbps, 48 Mbps, 54 Mbps | 802.11a: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbps 802.11n: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbps 802.11ac: 300 / 270 / 240 / 180 / 120 / 90 / 60 / 30 Mbps |
| Power Supply | 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) |
| Operating Environment | -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 |
| Non-Kits Include | 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 ft ² (0.15m ²) 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 ² (0.12m ²) EPA |
| Wind Survivability | 125 mph (200 kph) | 125 mph (200 kph) |
| Certification | FCC / IC | FCC / IC |
| Warranty | 5 Years limited warranty | 5 Years limited warranty |



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