

VEGHA Series (VWEAG-VS) Hi-Speed Outdoor Digital Radio Modem

Key Features

- Industrial grade IP67 Casing
- Up to 15 km range with 24 dbi External Antenna
- Up to 108 Mbps (Turbo Mode)
- Power Over Ethernet Supply
- Bandwidth Control*
- Hot Standby*
- Wireless Isolation between wireless links reduces Interference
- Roque Radio Association can be Controlled

Wireless Features

- IEEE 802.11g compliant radio, up to 54Mbps
- Up to 108Mbps wireless data rate at turbo mode
- RF Power Control. The transmit power can be adjusted by software control between 100% to 12.5% of maximum radio power
- Support seamless roaming within the same subnet Between Access Point (In repeater and client mode)
- Up to 250 association

Network (Internet and Intranet)

- Protocol Filtering

Security and Access Control for Access Point Mode

- Support static WLAN WEP up to 152 bits encryption
- MAC Address Control
- WPA with Radius Server for EAP-TLS, EAP-TTLS and EAP-PEAP (In Access Point mode)
- WPA-PSK (AES and TKIP)
- Wireless to wireless user isolation

Management

- Web-based management
- IP address discovery software (Viper Quick Start)
- Firmware upgradeable through web-server and telnet

Hardware

- Antenna connector: 50-Ohm N Female antenna connector (For external antenna connection)
- Chassis Type: IP65 Rating with Bracket for wall mounting
- Ethernet Port: 10/100 Base-T (RJ-45 connector) with auto MDIX

Power Specification

- Power adapter: 18~48V DC through RJ45
- Power Consumption: Typical 6.5 Watts, 7.0 Watts Max

Environment

- Operating Temperature: 0°C to 60°C ambient temperature
- Relative Humidity when operational : 0~90% (non-condensing)
- Storage Temperature: -20°C to +75°C ambient temperature
- Relative Humidity during storage: 95% Max (non-condensing)



RF Specification

• Frequency Range	2.4 ~ 2.4835 GHz		
• Wireless Data Rate	54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps 108Mbps for Turbo mode		
• Channels	11 channels (USA/Canada), 13 Channels (Singapore, Europe except France), 14 Channels (Japan)		
• Transmitter Output Power	17 dBm(23/26 dBm *)		
• Nominal Antenna Port Impedance	50 Ω (for external antenna connector, if applicable)		
• Media Access Protocol	CSMA/CA with ACK		
• Modulation Technique	OFDM, CCK, DQPSK, DBPSK		
• Receiver Sensitivity	Bit Rate	PER	Signal
	54Mbps	10%	-72dBm
	11Mbps	8%	-86dBm
	6Mbps	10%	-90dBm
	1Mbps	8%	-92dBm

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