



ESTeEM

INDUSTRIAL WIRELESS SOLUTIONS

Horizon 2.4

The **ESTeem Horizon 2.4** is a ruggedized, industrial grade 2.4GHz Access Point (AP)

Bridge designed and built for

harsh outdoor environments. The **ESTeem Horizon 2.4** provides robust speeds (to 150Mbps) and extended range to deliver the reliable and secure wireless WiFi networks required today to provide complete connectivity for remote learning. Scalable Wireless networking for even greater coverage areas become a reality using the Horizon **IndustrialMESH** Technology.



Key Features

- **WiFi**—802.11b/g/n Compatible
- Highly Secure (AES) encryption
- Simplified configuration
- 1 Watt of output power for extended coverage
- Built to be mounted outdoors directly in the harsh elements — Extended Temperature Range and NEMA 4 rated protection
- ESTeem’s scalable 2.4GHz **IndustrialMESH** technology enables bridging multiple locations for even greater coverage
- ESTeem Memory Module stores configuration information for rapid deployment or replacement



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ESTeem Horizon 2.4 Specifications

ESTeem Horizon 2.4 Specifications	
Transmitter/Receiver	
Frequency of Operation (Software Selectable)	2.412 to 2.462 GHz (11-channels)
RF Data Rate	1 to 150 Mbps
Tx Output Power (Software Selectable)	1 Watt (30dBm)
Channel Bandwidth	5 MHz, 10 MHz, 20 MHz or 40 MHz
Tx Output Impedance	50 ohms
Rx Sensitivity	-97 to -65 dBm
FCC Type Acceptance	ENPHZN216AN
Industry Canada Type Acceptance	2163A-216AN
LED Indicators	Power (On/Off) - Status (On/Off) - Transmitter (On/Off) - Receiver (On/Off)
Power Requirements	
Receive	600ma @ 12 VDC
Transmit	1.25A @ 12 VDC
PoE Power Supply	(IEEE 802.3at,30 watts) (opt)
External Power Input	10 to 16 VDC @ 1.5A
Input/Output Connectors	
Ethernet Port 1 (10/100)	RJ-45 Female
Ethernet Port 2 (10/100)	
802.11 Compatibility	802.11n/g/b
RS-232C Data Port (2,400 to 115.2 K baud)	RJ-45 Female
RS-232C Programming Port (115,200,N,8,1)	
Antenna Input/Outputs	TNC Reverse Female
External DC Input Power	Mini-Combicon, 3-pin Female
Case	
Temperature Range	-30° to +60° C
Humidity	95% Non-condensing
Dimensions	1.9 in. H x 6.7 in. W x 6.2 in. L
Weight	1.25 lbs.
Product Warranty	1 Year
Other	
Outdoor Pole Mt. Kit	AA195PM (NEMA4 Rating When Used)
PoE+ Power Supply	AA175.5 (opt)
Security	WPA2, WPA, AES-128/256, TKIP, WEP-64/128 MAC ID filter

