

## Horizon 2.4-MIMO

The **ESTeem Horizon 2.4-MIMO** is a ruggedized, industrial grade 2.4GHz Access Point (AP) Bridge designed and built for harsh outdoor environments. The **ESTeem Horizon 2.4-MIMO** provides robust speeds (**to 300Mbps**) 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
- High output power for expanded 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 wirelessly bridging multiple AP’s for even greater coverage



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## ESTeem Horizon 2.4-MIMO Specifications

Transmitter/Receiver	
Frequency of Operation (Software Selectable)	2.412 to 2.462 GHz (11-channels)
RF Data Rate	1 to 300 Mbps
Tx Output Power (Software Selectable)	500 mW (27 dBm)
Channel Bandwidth	5 MHz, 10 MHz, 20 MHz or 40 MHz
Tx Output Impedance	50 ohms
Rx Sensitivity	-93 dBm
FCC Type Acceptance	TV7R11E2HPND
Industry Canada Type Acceptance	7442A-R11E2HPND
LED Indicators	Power (On/Off) - Status (On/Off) - Transmitter (On/Off) - Receiver (On/Off)
Power Requirements	
Receive	250 ma @ 12 VDC
Transmit	1.25 A @ 12 VDC
PoE Power Supply	(IEEE 802.3at,30 watts) (opt)
External Power Input	10 to 16 VDC @ 1.5 A
Input/Output Connectors	
Ethernet Port 1 (10/100/1000)	RJ-45 Female
Ethernet Port 2 (10/100/1000)	
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)
GPS Location	Optional (Factory Installed)
Security	
	WPA2, WPA, AES-128/256, TKIP, WEP-64/128 MAC ID filter

