

Horizon 2.4 MIMO


Advanced Wireless Solutions

Core Values & Key Features

FREQUENCY FLEXIBILITY

Offered in 2.4GHz for Great Range and Performance with integrated WiFi to support your application strategies.



- License-Free 2.4GHz
- 1-300 Mbps
- Integrated WiFi 

ADVANCED SECURITY

Enhanced network security featuring AES 256 encryption, stringent access controls, and advanced network segmentation capabilities.



- AES-128/256 Encryption, WPA2 PSK/Enterprise
- Stringent Network Access Controls
- Network Segmentation Strategies

LONG RANGE VARIED SETUPS

Experience high-speed connectivity at maximum range, exceptional indoor coverage, and extensive outdoor reach. Designed for future readiness.



- Maximum Coverage at Full Speed
- Versatile Mounting: Cabinet, DIN, or Direct Pole
- 9 User Selectable Modes of Operation
 - ❖ Fixed Location & Mobile/Client

MESH NETWORK RELIABILITY

Ensures continuous uptime and data integrity with self-healing, redundant MESH technology, delivering real-time data access.



- Dynamic, Self-Healing MESH Networking
- Prioritized Communication Routes
- Auto MESH setup with “Rapid Ready Link”

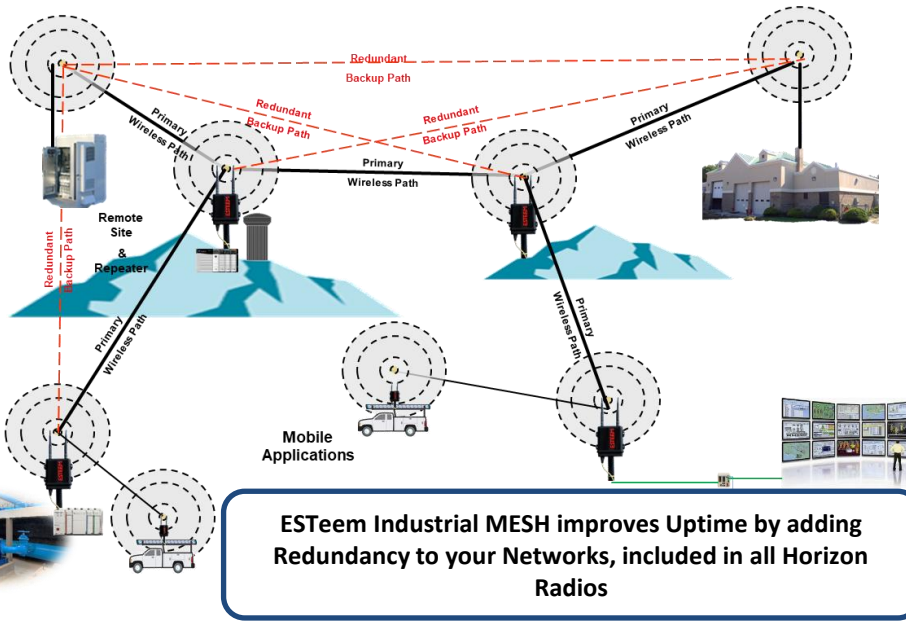
NETWORK VISIBILITY LONGEVITY

Proactive real-time monitoring via SNMP or ModbusTCP enhances wireless network efficiency and security.



- Scalable, Adaptable Network Solutions
- Real-time Network Health Monitoring
- Forward/Backward Generational Compatibility





ESTeem Industrial MESH improves Uptime by adding Redundancy to your Networks, included in all Horizon Radios



Enclosure Installation - DIN Mount Option



Direct NEMA 4 Installation - Pole Mount Option

Horizon Series Specifications

-Transmitter/Receiver-	Horizon 2.4-MIMO
Frequency of Operation (Software Selectable)	2.4 GHz (11 Channels)
RF Data Rate	1 - 300 Mbps
Max TX Output Power (Software Selectable)	500mW (27dBm)
Channel Bandwidth	5, 10, 20, 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, Status, TX, RX (On/Off)
-Power Requirements-	
Receive	600mA @ 12V DC
Transmit	1.25A @ 12V DC
PoE Power Supply	30W PoE+ (IEEE 802.3at)
Auxiliary Power Input	10 - 16V DC @ 1.5A
-Input/Output Connectors-	
Ethernet Port 1 & 2 (10/100/1000)	RJ-45 Female
802.11 Compatibility	802.11n/g/b
RS-232C Data Port (2400 to 115200 baud)	RJ-45 Female
RS-232C Programming Port (115200,8,N,1)	RJ-45 Female
Antenna Input/Output	TNC-F/RP
External DC Input Power	Mini-Combicon, 3-Pin Female
-Case-	
Temperature Range	-30° to +60° C
Humidity	95% Non-Condensing
Dimensions	1.9"H x 6.7"W x 6.2"L
Weight	1.25 lbs.
Product Warranty	1 Year
-Other-	
Outdoor Pole Mount Kit	AA195PM (NEMA4 Rated)
GPS Location	Optional Add-On (Factory Installed)
Wi-Fi Access	Native
PoE Power Supply	AA175.5 (Optional)
Security	WEP-64/128, TKIP, WPA, WPA2, AES-128/256

