

# Horizon 4.9

Advanced Wireless Solutions

## Core Values & Key Features

### FREQUENCY FLEXIBILITY

Offered in 4.9GHz for Exclusive Use and Greater Range Flexibility to support your application strategies.



- FCC-Licensed 4.9GHz
- 6-72 Mbps
- OFDM Modulation

### 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”

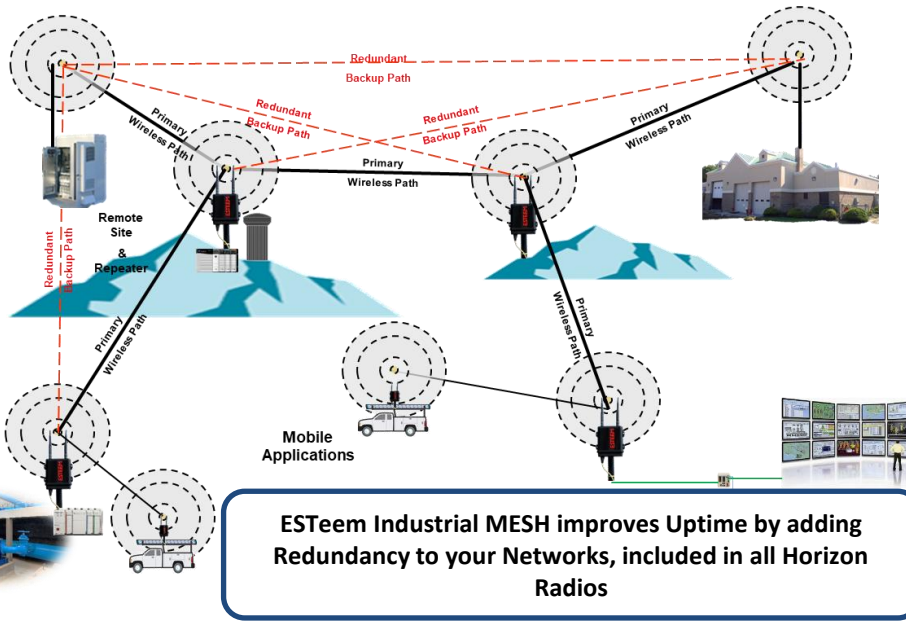
### NETWORK VISIBILITY LONGEVITY

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

- For FCC Approved “Public Safety” applications



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



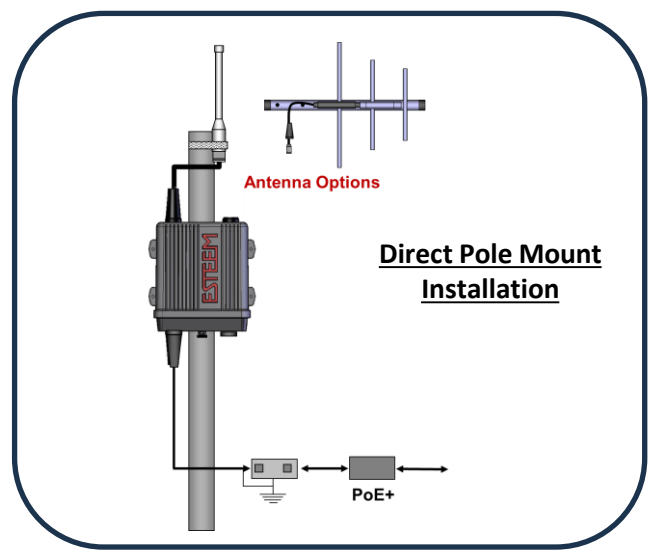
**Enclosure Installation – DIN Mount Option**



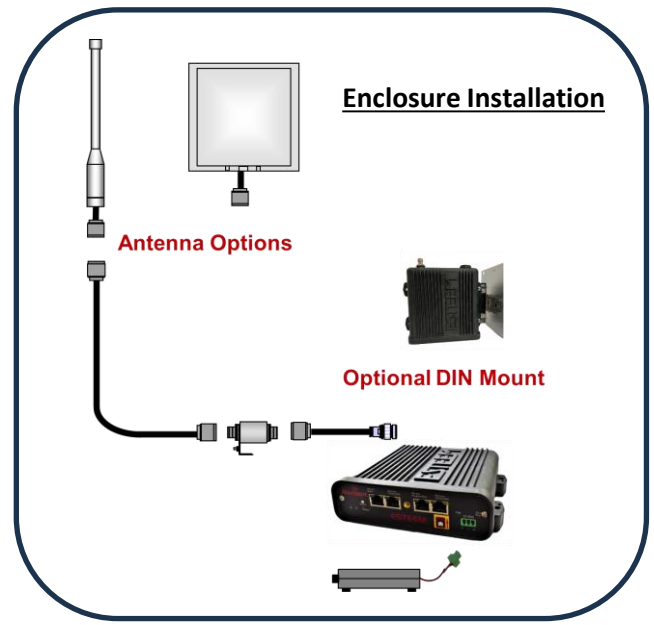
**Direct NEMA 4 Installation - Pole Mount Option**

## Horizon Series Specifications

<b>-Transmitter/Receiver-</b>	<b>Horizon 4.9</b>
Frequency of Operation (Software Selectable)	4.9 GHz (2 Channels)
RF Data Rate	6 - 72.2 Mbps
Max TX Output Power (Software Selectable)	1W (30dBm)
Channel Bandwidth	20 MHz
TX Output Impedance	50 ohms
RX Sensitivity	-94 dBm
FCC Type Acceptance	ENPHZN216AP
Industry Canada Type Acceptance	Not Approved
LED Indicators	Power, Status, TX, RX (On/Off)
<b>-Power Requirements-</b>	
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
<b>-Input/Output Connectors-</b>	
Ethernet Port 1 & 2 (10/100/1000)	RJ-45 Female
802.11 Compatibility	None
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
External DC Input Power	Mini-Combicon, 3-Pin Female
<b>-Case-</b>	
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
<b>-Other-</b>	
Outdoor Pole Mount Kit	AA195PM (NEMA4 Rated)
GPS Location	Optional Add-On (Factory Installed)
Wi-Fi Access	Not Available
PoE Power Supply	AA175.5 (Optional)
Security	WEP-64/128, TKIP, WPA, WPA2, AES-128/256



**Direct Pole Mount Installation**



**Enclosure Installation**

**Optional DIN Mount**