Horizon Series

Key Features

- 900MHz, 2.4GHz and 5.8GHz frequency options

- Reliable Dynamic *IndustrialMESH* Networking

- High-speed connectivity (up to 300 Mbps) to provide bandwidth for today and tomorrow's networking demands

- Edge-to-Edge AES-256 Cybersecurity

- Scalable, Cost Effective, and Future Proof

- Simple configuration - Build and manage secure OT infrastructure in minutes

- Layer 2 *AND* Layer 3 network support

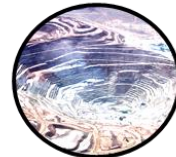- Fixed location & Mobile modes of operation

- *[ESTeem 195E Series compatible]*

Water/Wastewater

Oil & Gas

Mining

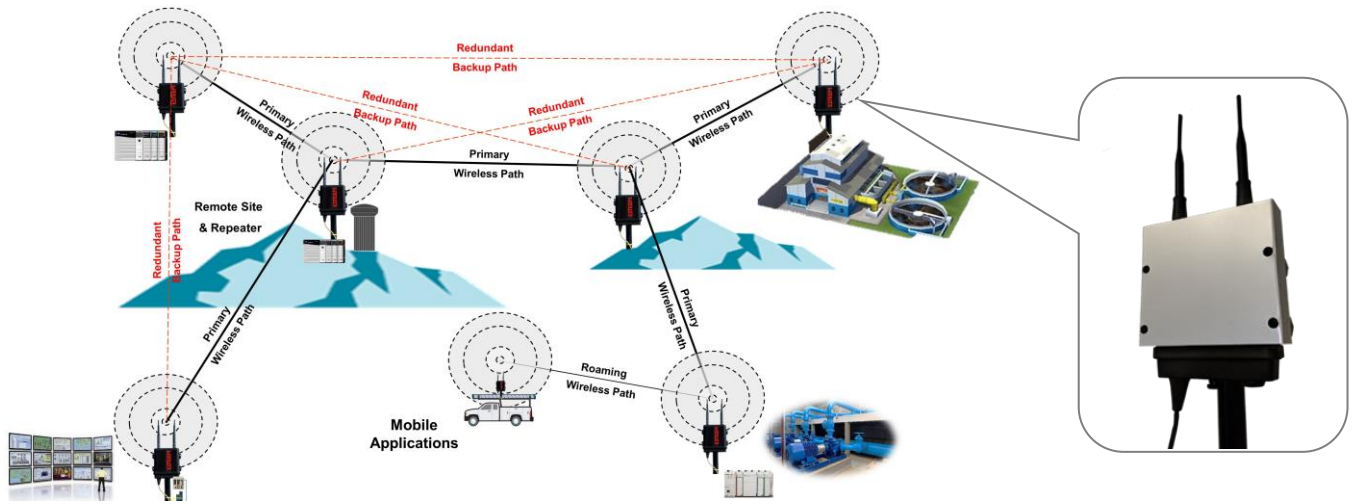Power & Energy

Material Handling

Factory Floor

Agriculture

Infrastructure

The **ESTeem Horizon** is a ruggedized, industrial wireless device built to be an essential component of the demanding industrial communications infrastructure.

The **ESTeem Horizon** provides unsurpassed speed and range to deliver the reliable, isolated and secure wireless networks required today to provide complete connectivity to critical IT, operations, control systems, and remote asset data.

ESTeem Horizon Series Specifications

Transmitter/Receiver	Horizon 900	Horizon 2.4-MIMO	Horizon 5.8
Frequency of Operation (Software Selectable)	902-928 MHz (4 Channels)	2.4 GHz (11-channels)	5.8 GHz (17-channels)
RF Data Rate	1 to 72.2 Mbps	1 to 300 Mbps	6 to 300 Mbps
Max Tx Output Power (Software Selectable)	1 Watt (30dBm)	500 mW (27dBm)	250 mW (24dBm)
Channel Bandwidth	5, 10 or 20 MHz	5, 10, 20 or 40 MHz	5, 10, 20 or 40 MHz
Tx Output Impedance	50 ohms		
Rx Sensitivity	-93 dBm	-93 dBm	-93 dBm
FCC Type Acceptance	ENPHZN216AD	TV7R11E2HPND	TV7R11E5HND
Industry Canada Type Acceptance	2163A-216AD	7442A-R11E2HPND	Not Approved
LED Indicators	Power (On/Off) - Status (On/Off) - Transmitter (On/Off) - Receiver (On/Off)		
Power Requirements			
Receive	600 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	n/a	802.11n/g/b	802.11n/a
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		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)		
GPS Location	Optional (Factory Installed)		
PoE Power Supply	AA175.5 (opt)		
Security	WPA2, WPA, AES-128/256, TKIP, WEP-64/128 MAC ID filter		

ESTeem Secure Wireless Networking