



ESTeEM

SECURE WIRELESS NETWORKING

Horizon 900



Key Features

License-Free 902-928 MHz frequency

Reliable Dynamic *IndustrialMESH* Networking

High-speed connectivity (up to 72 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

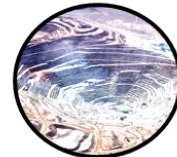
[ESTeem 195Ed Series compatible]



Water/Wastewater



Oil & Gas



Mining



Power & Energy



Material Handling



Factory Floor



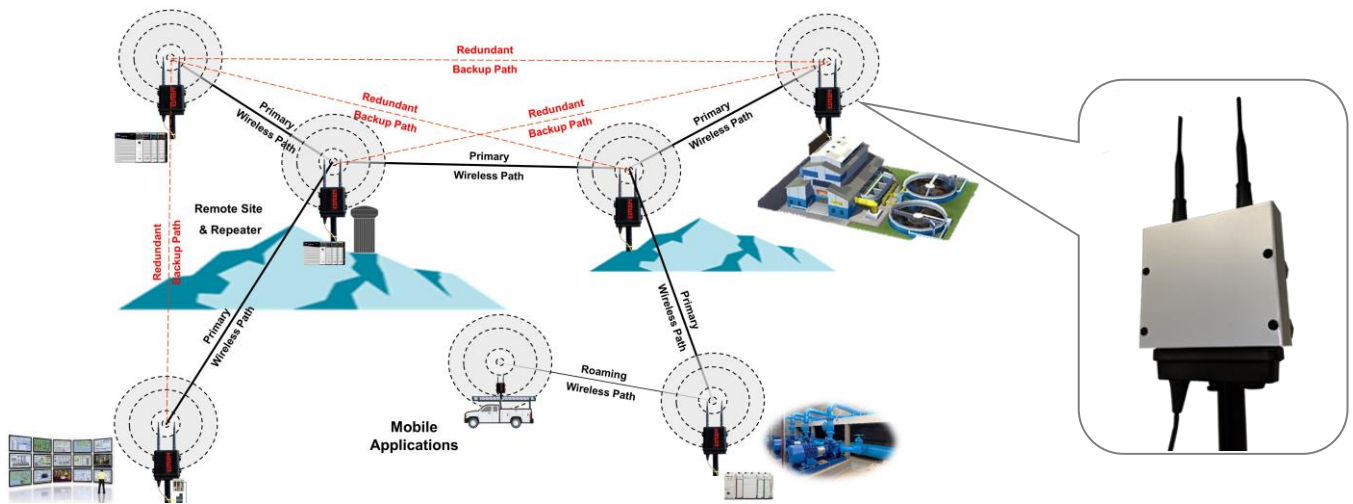
Agriculture



Infrastructure

The **ESTeem Horizon 900** is a ruggedized, industrial wireless device built to be an essential component of the demanding industrial communications infrastructure.

The **ESTeem Horizon 900** 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 900 Specifications

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Transmitter/Receiver	
Frequency of Operation (Software Selectable)	902-928 MHz (4-channels)
RF Data Rate	1 to 72.2 Mbps
Tx Output Power (Software Selectable)	1 Watt (30dBm)
Channel Bandwidth	5 MHz, 10 MHz or 20 MHz
Tx Output Impedance	50 ohms
Rx Sensitivity	-93 dBm
FCC Type Acceptance	ENPHZN216AD
Industry Canada Type Acceptance	2163A-216AD
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 (10/100/1000)	RJ-45 Female
Ethernet Port 2 (10/100/1000)	
802.11 Compatibility	n/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
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