



ESTeEM
SECURE WIRELESS NETWORKING

Horizon 4.9

Key Features



Exclusive use FC- licensed 4.9 GHz 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 195Ep Series compatible]



Water/Wastewater



Infrastructure



Public Safety

The **ESTeem Horizon 4.9** is a ruggedized, industrial wireless device built to be an essential component of the demanding industrial communications infrastructure.

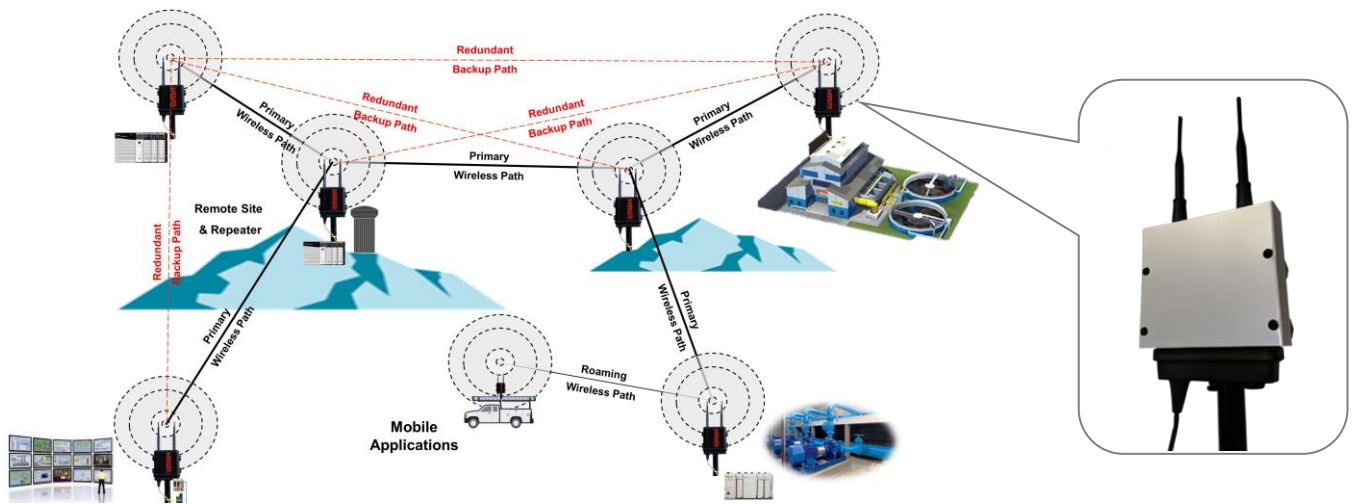
The **ESTeem Horizon 4.9** provides unsurpassed speed and range to deliver the reliable, isolated and secure wireless networks required today to provide complete connectivity to critical IT, operations, control systems, and remote asset data.

ESTeem Secure Wireless Networking

www.esteem.com

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ESTeem Horizon 4.9 Specifications

Transmitter/Receiver	
Frequency of Operation (Software Selectable)	4.960 to 4.980 GHz (2-channels)
RF Data Rate	6 to 72.2 Mbps
Tx Output Power (Software Selectable)	1 Watt (30dBm)
Tx Output Impedance	50 ohms
Channel Bandwidth	20 MHz
Rx Sensitivity	-94 dBm
FCC Type Acceptance	ENPHZN216AP
Industry Canada Type Acceptance	Not Approved
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)	
RS-232C Programming Port (115,200,N,8,1)	RJ-45 Female
Antenna Input/Outputs	TNC 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