



CERAGON

TECH SOLUTION BRIEF

WIRELESS BACKHAUL SOLUTIONS FOR VIDEO SURVEILLANCE

HIGH-CAPACITY, SECURE CONNECTIVITY WITHOUT THE COMPLEXITY OF FIBER

Organizations in smart cities, public safety, utilities, oil & gas, and defense sectors rely on robust video surveillance to protect people, assets, and operations. But extending fiber infrastructure everywhere is costly, disruptive, and often impractical. Wireless backhaul connectivity solutions from Ceragon deliver the same multi-gigabit capacity as fiber — with the speed, flexibility, and affordability of wireless.

And when combined with advanced video surveillance technologies, this creates a complete solution that merges high-capacity, secure connectivity with intelligent imaging, analytics, and reliability — empowering organizations to safeguard people and assets while streamlining operations.

These sectors face mounting challenges, including:

- High cost and long timelines of fiber trenching and deployment.
- Interference and congestion in traditional wireless bands.
- The need for reliable, secure connectivity to stream HD and 4K video.
- Complex, resource-heavy installation and maintenance.
- Scalability to support growing surveillance networks across wide areas.
- Aligning wireless links requires skilled personnel

Ceragon's wireless connectivity solutions combine fiber-like performance with wireless agility, ensuring surveillance systems are always-on, secure, and cost-effective.

HIGH-PERFORMANCE WIRELESS FOR CRITICAL SURVEILLANCE

Ceragon's mmW radios operate in uncongested 60/70/80 GHz bands, enabling interference-free video transmission - in the densest urban environments, and the remotest rural areas. With mesh capabilities and 360° coverage, surveillance teams can design flexible networks that scale quickly, expand coverage seamlessly, and ensure no blind spots remain.

Applications include:

	SMART CITIES	Supporting video surveillance cameras, smart poles, and environmental monitoring.
	PUBLIC SAFETY	Enabling reliable video feeds for emergency response, crowd management, and incident monitoring.
	UTILITIES	Securing power plants, substations, and water facilities with always-on surveillance.
	OIL & GAS	Monitoring pipelines, offshore rigs, and remote operations in harsh conditions.
	DEFENSE	Delivering secure, real-time situational awareness across bases and field operations.



SOLUTION OVERVIEW

Security and Reliability by Design. With AES encryption, ultra-low latency, and high availability, Ceragon solutions safeguard sensitive surveillance data while ensuring uninterrupted visibility.

Scalable, Proven Performance. From street-level deployments up to rooftops and multi-point aggregation, the EtherHaul™ and MultiHaul TG™ families deliver connectivity for small and large surveillance networks alike. And with the IP-50EXP high-power E-band radio, operators can extend multi-gigabit performance over longer distances, connecting even hard-to-reach sites.

KEY CONNECTIVITY SOLUTION BENEFITS

+ MULTI-GIGABIT
THROUGHPUT

+ INTERFERENCE-FREE
CONNECTIVITY

+ MESH
360° COVERAGE

+ ULTRA-SECURE
TRANSMISSION

+ HIGH
RELIABILITY

+ LOW LATENCY

+ PLUG & PLAY
INSTALLATION

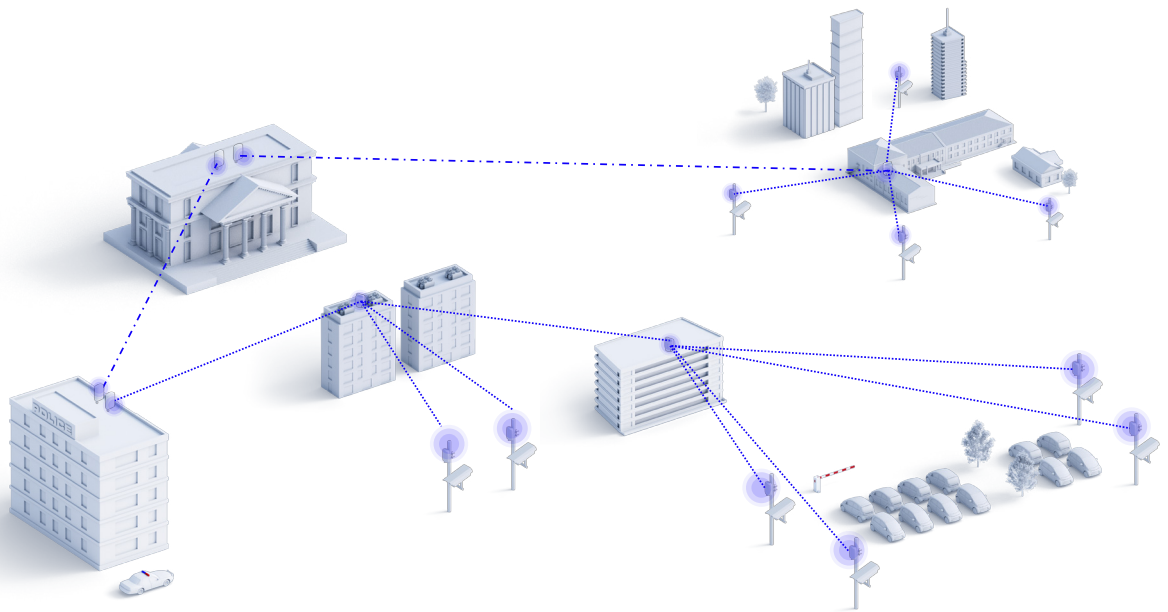
+ PoE-OUT
CAPABILITY

+ FLEXIBLE
DEPLOYMENTS

+ LIGHTWEIGHT &
REDEPLOYABLE



SECURE VIDEO SURVEILLANCE FOR PUBLIC SAFETY



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EXPERIENCE THE CERAGON ADVANTAGE

With the most widely deployed mmW E-band and V-band radios globally, Ceragon delivers unmatched expertise in wireless fiber connectivity. Trusted by governments, enterprises, and integrators, we ensure your surveillance networks are secure, scalable, cascable and future-ready.

Let's connect! Discover how Ceragon's Wireless Connectivity can empower your video surveillance systems today.

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