



# When Cities Can't Stop, RADWIN Keeps Them Moving

**Fiber-grade wireless built for Smart Cities, connecting faster, safer, and smarter.**

Cities never sleep. Traffic systems, cameras, sensors, and emergency services depend on always-on connectivity. Even brief disruptions can slow mobility, degrade services, and put public safety at risk.

Delivering reliable connectivity across a city is increasingly difficult. Congested airwaves, physical obstacles, and aging infrastructure limit network performance, while fiber deployments are costly, slow, and often impractical. As Smart City initiatives expand and data demands grow, many cities struggle to support mission-critical applications with limited budgets and resources.

RADWIN delivers fiber-class performance without trenching, delays, or disruption, keeping critical systems online and cities moving. Because cities can't afford downtime, they need communications engineered for always-on reliability, predictable performance, and continuous operations.



# The Urban Challenge:

## Slow & costly fiber deployment

Months of trenching delay critical projects and increase municipal costs.

**Solution:** Wireless broadband bypasses trenching entirely, enabling rapid citywide deployment in days instead of months, at a fraction of the cost.

## Congested Urban Networks

Interference causes unreliable CCTV and interrupted data. Your network cannot blink.

**Solution:** Advanced wireless technologies with intelligent interference mitigation deliver consistent, low latency performance even in dense urban environments.

## Lean IT teams

Overstretched staff can't monitor every link.

**Solution:** Centralized wireless managed networks with built-in automation and alerts reduces operational complexity and minimizes the need for hands-on maintenance.

## Unpredictable Emergencies

The forces of nature and humans cause critical outages.

**Solution:** Wireless networks can be rapidly set up, re-routed, redeployed, or restored, ensuring continuity of critical city services during emergencies and fiber cut offs.

## Regulatory Pressure

Network downtime risks funding, public trust and compliance obligations.

**Solution:** High-availability wireless infrastructure with carriergrade reliability helps cities meet uptime SLAs, protect public safety operations, and maintain regulatory compliance.

# The Solution: Smarter Connectivity for Every Corner of the City & Every Application

RADWIN powers the networks that keep cities safe, connected, and efficient. Our solutions are designed for real-world urban conditions, simple to deploy, reliable, and scalable as the city grows. A unified wireless platform that meets the needs of modern municipal infrastructure.

## Public Safety



### Video Surveillance & Monitoring:

Real-time HD video for safer neighborhoods and faster response with consistent performance even in interference-heavy zones.



### Emergency Communications & Networks:

Instant wireless links keep responders connected.



### Disaster Recovery & Temporary Networks:

Deploy resilient links in hours to restore communications.

## Smart Infrastructure



### Public Wi-Fi & Digital Inclusion:

Empower communities with secure Wi-Fi in public spaces and underserved areas.



### Building-to-Building Connectivity:

Replace fiber trenching with high-capacity wireless bridges.



### Smart Traffic Management & ITS:

Low-latency links for signals, sensors, LPR and mobility systems.



### IoT Infrastructure & Smart Sensors:

Connect meters, signage, and sensors for real-time insights.



# The RADWIN Offering: Fiber-Grade Wireless for Real-World Cities.

To support Smart City applications, RADWIN delivers a unified wireless platform built on -



Proven radio  
technologies

↖ ↗ Scalable  
↙ ↘ architectures



Intelligent  
management tools



# Radio Technologies (Sub-7 GHz & mmWave)

## Sub-7 GHz Solutions (Long-range, NLOS-Ready)

Engineered for long-range backhaul and reliable operation in interference-heavy, NLOS city environments. Ideal for high-availability links in public safety, CCTV backhaul and citywide connectivity.

## mmWave Solutions (Fiber-Grade, Short-Range)

Delivers multi-gigabit capacity for short-range, high-density zones such as intersections, campuses, and IoT clusters. Ideal where fiber is impractical but high throughput is essential.

## Tools & Services

### RADWIN OSS Suite – Visibility. Efficiency. Control.

RADWIN complements its wireless solutions with a unified OSS suite (WINPlan, WINTouch, and WINManage), enabling cities to deploy, operate, and maintain high-performance Smart City networks with less effort.

### RADWIN Managed Services – Performance on Autopilot

RADWIN's 24/7 managed operations keep city wireless networks running at **99.999%+ availability**, through continuous monitoring, RF optimization, firmware management, and trend-based governance, without expanding IT staff.

## Why RADWIN?

**99.999%**  
Availability

**180+**  
Countries

**1.6M**  
Radios



**End-to-end**  
wireless ecosystem



**Fiber-grade capacity,**  
sub-fiber cost



**Rapid deployment,**  
minimal disruption



**Guaranteed performance,**  
even in congested urban RF  
environments



**Lower TCO**  
up to 60% cost  
reduction vs fiber



**Compliance ready -**  
meeting municipal and cybersecurity standards



## Trusted by Cities Around the World



*RADWIN enabled our entire CCTV network to achieve 99.99% uptime, even in the most congested RF zones.*

Fairfield, California



*RADWIN enabled our entire CCTV network to achieve 99.99% uptime, even in the most congested RF zones.*

Fairfield, California



*Switching to RADWIN took us from constantly babysitting the network to running on autopilot.*

Or Yehuda Municipality



*TerraNet saves my team at least 25% of installation time – directly impacting our bottom line and customer satisfaction.*

Kansas City, USA



*RADWIN keeps our critical links online when earthquakes take fiber offline.*

Japanese Municipality

### About RADWIN

RADWIN is a global provider of broadband wireless solutions that deliver fast broadband with unparalleled reliability. RADWIN solutions have been deployed in more than 180 countries and have a proven track record of delivering connectivity for mission-critical applications in industries such as transportation, mining, ports, and public safety, as well as backhaul, access, and private network connectivity. With over 25 years of experience, RADWIN is the go-to choice for dependable broadband solutions.

**When the city depends on connectivity,  
it depends on RADWIN.**

Reach out to your local RADWIN representative for personalized assistance or visit [www.radwin.com](http://www.radwin.com) to connect with our team and discover how we can support your city's network needs.