



**WIN**

## RADWIN's Wireless Security Solutions

To enhance security and public safety, more and more organizations such as public safety agencies, municipalities and enterprises are turning to wireless broadband technology and advanced security applications.

RADWIN's wireless Point-to-Point and Point-to-MultiPoint broadband solutions support high-bandwidth security applications that require assured performance and guaranteed bandwidth.

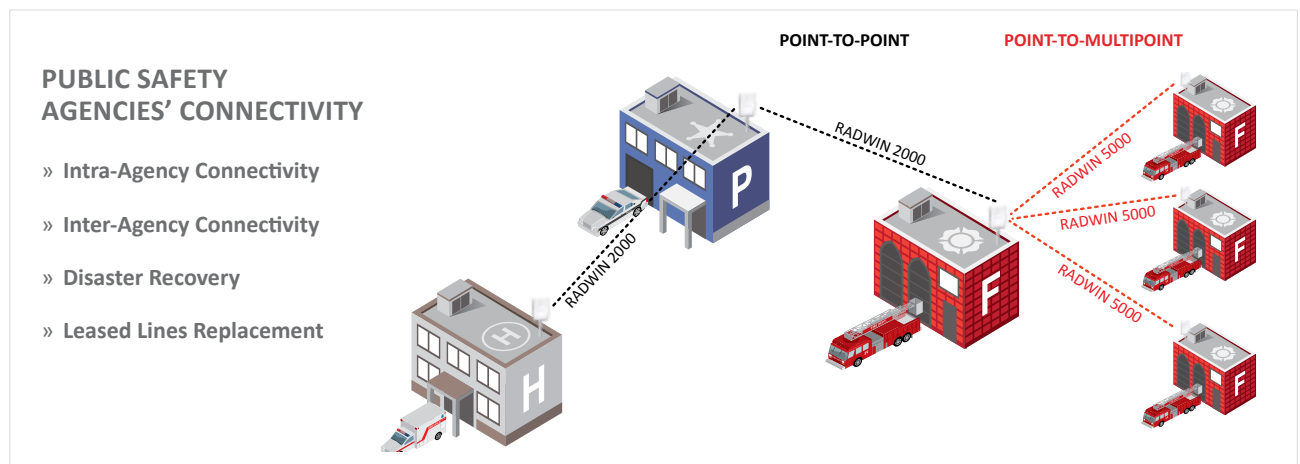
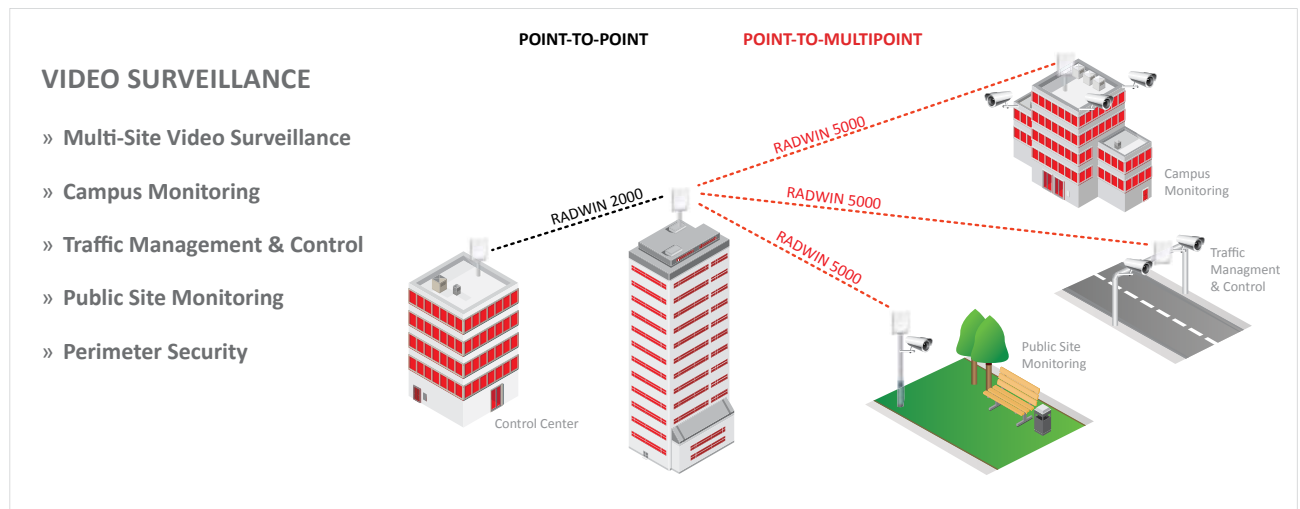
RADWIN provides a complete wireless broadband solution for security projects including safe cities, public safety agency connectivity, multi-site video surveillance, traffic management, Land Mobile Radio backhaul and border control. By deploying RADWIN's solutions, public safety agencies and organizations can enhance performance, lower the total cost of ownership and meet budget constraints.

## RADWIN Solutions for Security

RADWIN's Point-to-Point and Point-to-MultiPoint sub 6 GHz solutions enable instant deployment of high quality video surveillance in any location and environment. By providing a robust, dedicated link per camera or per cluster of cameras, RADWIN's portfolio offers assured reliability, simple installation and high scalability.

- » **RADWIN 5000 High Capacity Point-to-MultiPoint (HPMP) Portfolio** delivers up to 200 Mbps per sector and supports high capacity remote terminals (up to 50Mbps per terminal) at a range of up to 40Km. RADWIN 5000 HPMP is simply the best solution for video surveillance transmission. RADWIN 5000 HPMP uniquely secures the bandwidth per camera or remote site, guaranteeing best transmission performance.
- » **RADWIN 2000 Point-to-Point Portfolio** delivers high capacity of up to 200 Mbps net aggregate throughput at a range of up to 120 Km. RADWIN 2000 is the ideal solution for backhauling RADWIN 5000 in a surveillance network and for connectivity of public safety agencies.
- » **WinLink 1000 ACCESS-PRO Series** provides high quality Point-to-Point connectivity of up to 6 Mbps symmetrical Ethernet service (upgradable to 18 Mbps) at a range of up to 80 Km.

The RADWIN-based networks are easily managed via a common network management platform that is simple to configure and operate from a central location.



## RADWIN Solution Highlights

### High Bandwidth for Multiple Video Cameras

Surveillance solutions require high resolution video of 5 Mbps or more. Delivering up to 200 Mbps net throughput, RADWIN PtP and PtMP solutions are capable of backhauling multiple high-definition cameras.

RADWIN's solutions provide guaranteed SLA per camera, thus assuring high quality video transmission.

### Highest Performance in Sub 6GHz

RADWIN's carrier-grade solutions incorporate advanced technologies for superior operation in unlicensed bands and non-exclusive licensed bands (e.g., 3.65GHz and 4.9GHz). RADWIN's interference mitigation technology combined with OFDM, MIMO 2x2 and space diversity assures error-free transmission in nLOS deployments, allowing installations in virtually any location and environment.

### Long Range

RADWIN solutions deliver high capacity over long ranges, thus enabling greater coverage with fewer radios. This allows public safety agencies to cost-effectively communicate with remote sites.

### Low Latency

RADWIN solutions are known for their low latency and low jitter. This assures high quality video transmission and streamlines effective operation of high-end security applications such as Pan-Tilt-Zoom (PTZ) cameras, advanced motion detection and license plate recognition (LPR).

### Enhanced Networking for Multicast Transmission

Many of today's surveillance projects involve multicast transmission from video management servers to cameras as well as require video streaming to multiple destinations.

RADWIN solutions support multicast traffic and incorporate advanced VLAN networking to ensure efficient video transmission at all times.

### Zero Downtime of Mission Critical Applications

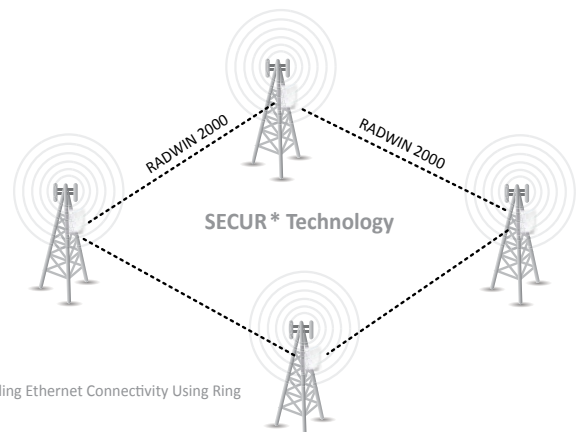
RADWIN's solutions offer backup and redundancy features to ensure maximum service availability of mission critical applications. Features include RADWIN SECUR technology (Self-healing Ethernet Connectivity Using Ring) as well as TDM and Ethernet 1+1 service protection.

## RADWIN Portfolio Highlights

- » **Dedicated High Capacity to Multiple Sites – up to 200 Mbps**
- » **OFDM, MIMO and Antenna Diversity Inside**
- » **Secured Transmission Performance in Unlicensed Bands**
- » **Long Range – up to 120 Km in PtP , up to 40 Km in PtMP**
- » **High Availability– 1+1 and RADWIN'S SECUR Technology**

### LMR BACKHAUL

- » **TETRA and P25 Land Mobile Radio (LMR) Backhaul**
- » **Dispatch Center Backup**
- » **911 PSAP (Public Safety Answering Point) Backup and Connectivity**



## Technical Data

	<b>RADWIN 5000 HPMP</b>	<b>RADWIN 2000</b>	<b>WinLink 1000 ACCESS-PRO</b>
Type	Point-to-MultiPoint	Point-to-Point	Point-to-Point
Net Capacity	Base Station: 200 Mbps	200 Mbps	6 Mbps Symmetrical (upgradable to 18 Mbps)
	Subscriber Unit: 50 Mbps, 20Mbps, or 10Mbps		
Service	Ethernet	Up to 16E1/T1s & Ethernet	Ethernet
Range	Up to 40 km/25 miles	Up to 120 km/75 miles	Up to 80 km/50 miles
Frequency Bands	3.3-3.8GHz and 4.9-6.0GHz.	2.3-2.7GHz, 3.3-3.8GHz and 4.8-6.0GHz.	2.4GHz and 4.9-6.0GHz.
OFDM	Supported	Supported	Supported
MIMO 2x2 / Antenna diversity	Supported	Supported	--
Operation in nLOS and NLOS	Excellent	Excellent	Very Good
Latency	4 to 10msec (typical)	< 3msec	< 3msec
TDD Synchronization	Intra-Site and Inter-Site (using GPS)		

*“RADWIN’s systems backhaul video from multiple sites back to a central point with excellent picture quality. What sets RADWIN’s systems apart is that they are exceptionally robust and transmit video from HD cameras for a crystalline image quality. Thanks to RADWIN, Maserà municipality is providing a safe city environment for its citizens.”*

**Lorenzo Zanfardin**

SAIV System Integrator for ‘Safe City’ Project in Maserà Municipality

*“RADWIN’s 4.9 GHz wireless solutions backhaul 2-way radio traffic seamlessly and reliably, enabling First Responders to react to emergency situations on the spot and provide a speedy response to critical situations.”*

**Ronny Johnston**

Wireless Dynamics, DETCOG Project Consultant (Deep East Texas Council of Governments)

### About RADWIN

Delivering best of breed wireless connectivity solutions, RADWIN is committed to providing a complete offering for the Sub 6GHz domain. Recognized as the market leader, RADWIN provides competitively priced products that achieve unmatched reliability, flexibility and installation simplicity. Deployed in over 130 countries around the world, RADWIN’s success is due to swift delivery of high quality wireless connectivity products that secure unrivaled performance for broadband access, backhaul connectivity, private networks and specialized broadband mobility applications.

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