



**WIN**

## **RADWIN Wireless Solutions for Government and Enterprise Sectors**

Government agencies and enterprises require a powerful broadband communications infrastructure to support advanced applications. At the same time, they are faced with demands to lower operational costs and increase efficiency.

RADWIN provides a sub-6GHz wireless offering of Point-to-Point and Point-to-MultiPoint solutions, enabling governments, municipalities, enterprises and utilities to create a complete, cost-effective broadband network.

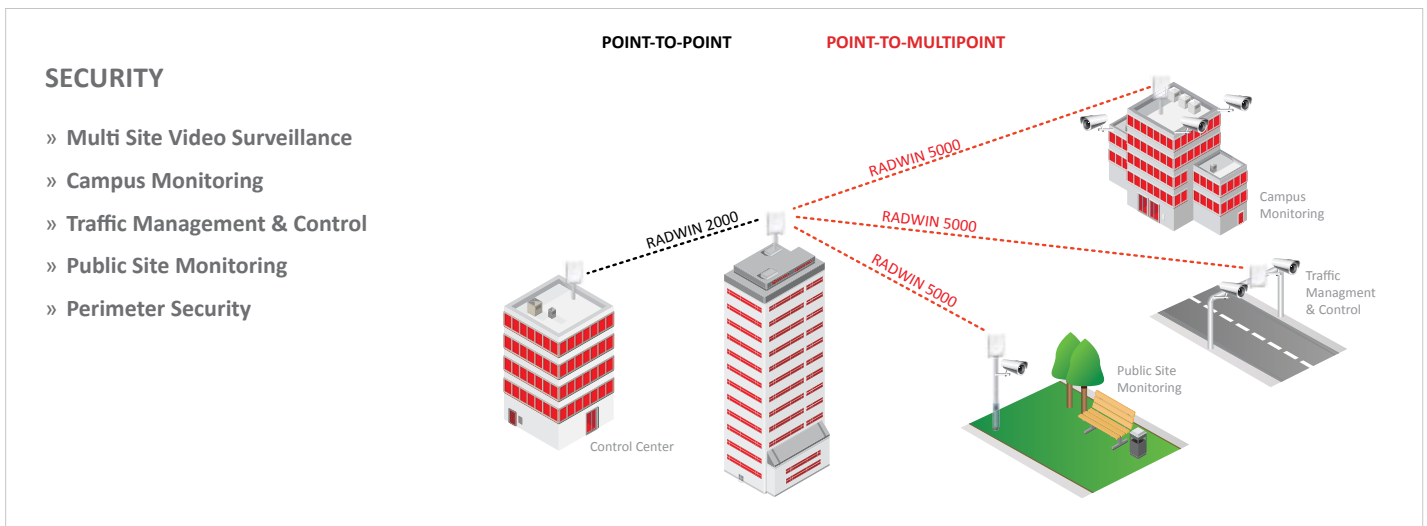
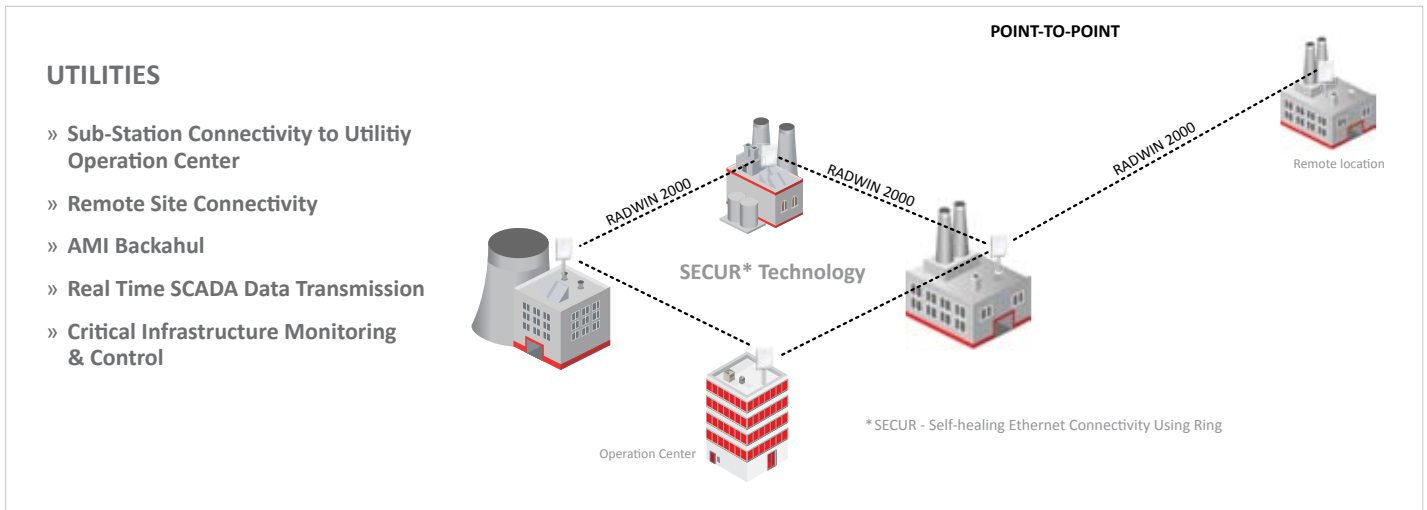
RADWIN's high capacity product portfolio meets the bandwidth needs of current and future applications and assures easy installation, low maintenance and affordable prices. RADWIN solutions ensure the lowest total cost of ownership per megabit when compared to leased lines and other wireless alternatives.

## RADWIN's Complete Portfolio for Government & Enterprises

RADWIN's Point-to-Point and Point-to-MultiPoint sub 6GHz portfolio provides a complete wireless solution for government entities such as municipalities, public safety and transportation agencies, enterprises and utility, educational, medical and financial corporations.

- » **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 40 Km. RADWIN 5000 HPMP uniquely secures the bandwidth per remote terminal, 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 provides native TDM (up to 16 E1s/T1s) + Ethernet connectivity for converged and all-IP networks.
- » **WinLink 1000 ACCESS-PRO Series** providing 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.

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



## RADWIN Solution Highlights

### 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 antenna diversity assures error free transmission in nLOS deployments, relevant for rural and urban scenarios.

### Delivering High Speed Capacity to Multiple Sites

RADWIN's solutions provide extremely high capacity. They meet the requirements of bandwidth-intensive applications and secure true peace of mind by providing a future proof solution.

### Connectivity to Geographically-Spread Sites

RADWIN PtP and PtMP solutions deliver exceptionally high capacity over long ranges. This allows government and enterprises to extend service reach, connect remote sites and communicate with distant locations.

### Zero Downtime For Ensuring Business Continuity

RADWIN solutions incorporate backup and redundancy functionalities to ensure maximum service availability of mission critical applications. This includes RADWIN SECUR technology (Self-healing Ethernet Connectivity Using Ring) as well as TDM and Ethernet 1+1 service protection.

### Securing High Quality Transmission for Video Surveillance

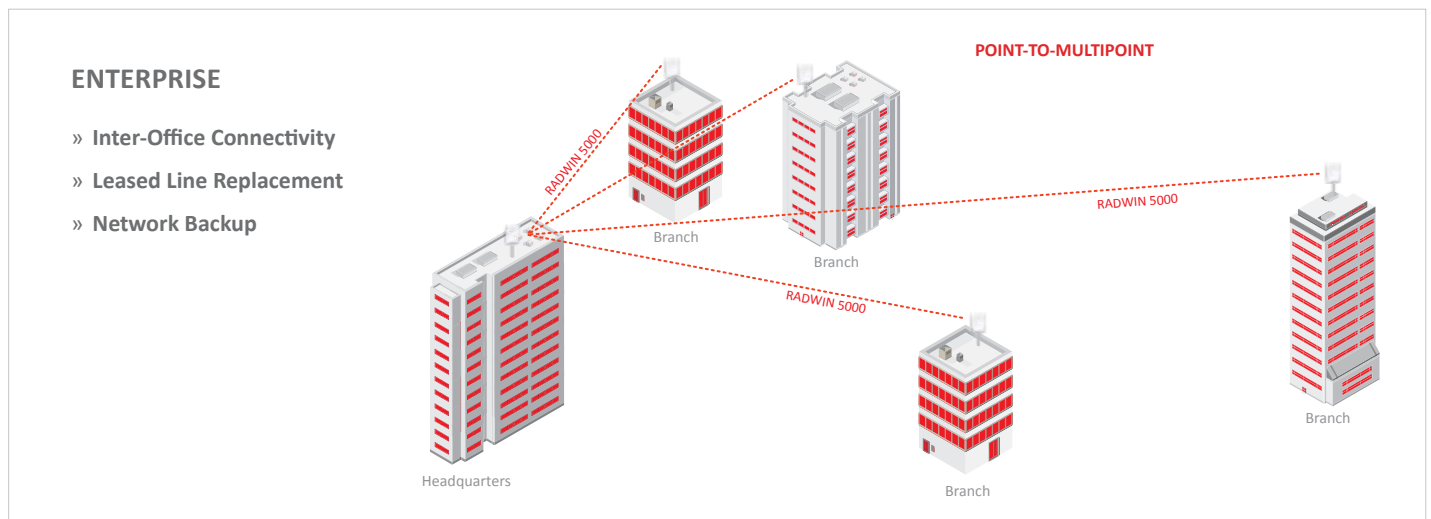
RADWIN offers a complete surveillance solution; RADWIN 5000 HPMP provides dedicated bandwidth links to multi-site locations for high resolution cameras while RADWIN 2000 backhauls video to the command center.

### Real-Time Connectivity for Remote Monitoring & Control

Due to their low latency, RADWIN solutions enable real-time IP communications which is imperative for SCADA and AMI (Automatic Metering Infrastructure) networks in order to monitor and control critical energy and utility infrastructures.

## 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**



## 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
Capacity	Base Station: 200 Mbps Subscriber Unit: 50 Mbps, 20Mbps, or 10Mbps	200 Mbps	6 Mbps Symmetrical (upgradable to 18 Mbps)
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 links have exceeded our expectations in terms of capacity, security and robustness. The bandwidth provided by the wireless network has been phenomenal and we are able to transfer massive amounts of data files and x-ray images in seconds.”*

**Dr I Hansrod**

Medical Director, Jackpersad Radiology Center, South Africa

*“We wanted to connect several sites to our Main Water Center and evaluated a number of vendors. Hands down, RADWIN’s links delivered the best performance. We were especially impressed by the fact that the links operated at such a high altitude (4611 m) where other systems failed, and that they connected sites that were over 70 km apart!”*

**Mauricio Postigo**

Project Manager, Autodema,  
Gov.-owned Water Company, Arequipa, Peru

### 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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