



RADWIN TerraWIN™

mmWave 60GHz mesh for advanced multi-gigabit broadband services



RADWIN TerraWIN™ solution is based on the latest 802.11ay standard and delivers gigabit wireless access services to homes and businesses, smart cities and public Wi-Fi networks to complement fiber in urban and, suburban and semirural environments.

By incorporating terragraph (by Facebook) into the TerraWIN multi-node mesh network, high network resiliency and service availability is assured through self-organizing, self-healing and self-backhauling capabilities. The advanced mesh architecture simplifies planning, overcomes range and LoS limitations and enables efficient and low-cost expansion of the network footprint.

TerraWIN nodes include Massive-Array beamforming antennas to increase network coverage and assure highest capacity service rates. The modular architecture meets the needs of a wide range of deployment scenarios, while allowing network capacity growth through the deployment of additional Distribution Nodes (DN) per site. The Nodes can be quickly and easily mounted on buildings, residential homes, utility poles and street furniture.

RADWIN OSS supports a fully automated installation and deployment process, with continuous synchronization between the planning and deployment management tools to ensure optimized planning according to real-time field conditions.

terragraph
certified



TerraWIN 60GHz mesh solution

Product Specifications

Specification	DN – Distribution Node	CN – Client Node
Ethernet throughput	Up to 3.6Gbps agg. per user Up to 14.4Gbps agg. per site	Up to 3.6Gbps agg. per user
Frequency	57-66GHz	57-66GHz
Frequency Re-Use	Frequency Re-Use 1	N/A
Mesh	Self-organizing, self-healing, self-optimizing	N/A
Antenna	Integrated 2D beamforming antenna, 90° sector coverage, Auto alignment	Integrated 2D beamforming antenna, 90° coverage, Auto alignment
EIRP	Up to 42dBm	Up to 42dBm
Synchronization	TDMA/TDD, Built in GPS for TDD sync	TDMA/TDD
Connections per node	Up to 15 CNs , Up to 2 DNs	N/A
Security	AES 128	AES 128
OSS	Supported, including WINTouch mobile app	Supported, including WINTouch mobile app
Power consumption	<25W	<25W
Node dimensions (H*W*D)	17 x 17 x 6 cm / 7" x 7" x 2.5	17 x 17 x 6 cm / 7" x 7" x 2.5
Environmental	IP67	IP67

RADWIN

RADWIN Ltd Corporate Headquarters

+972.3.766.2900 | sales@radwin.com