



Product Overview



WinLink™ 1000 Access

Fast Ethernet Wireless Broadband Solution

Price & Performance Leadership in Wireless Broadband

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RADWIN's WinLink™ 1000 Access wireless broadband solution offers Ethernet transmission at an extremely competitive price. WinLink™ 1000 Access is the newest addition to RADWIN's WinLink™ 1000 portfolio of high capacity, cost-effective wireless broadband solutions that deliver carrier-class TDM and Ethernet services in the sub-6 GHz bands.

The WinLink™ 1000 Access solution meets the needs of operators who want to deploy high-quality Ethernet services with maximum speed, yet with minimum costs and hassles. Operators can install WinLink™ 1000 Access in hours, expand their connectivity footprint and realize almost immediate return on investment. In addition, WinLink™ 1000 Access is designed to support user capacity management, enabling optimized bandwidth allocation and flexible service pricing. Reliable and robust, WinLink™ 1000 Access provides unparalleled performance for broadband access applications, WiFi backhauling and remote site connectivity.

Collocation Installation

WinLink™ 1000 Access comes with a unique Hub Site Synchronization feature that enables installation of multiple systems at the same site. This feature synchronizes the transmission of collocated WinLink™ 1000 radios which dramatically reduces mutual interference commonly experienced with collocated TDD radios. This capability makes the WinLink™ 1000 Access ideal for deployment in multi point-to-point topologies.

Typical Applications

Broadband Access

WinLink™ 1000 Access enables service providers to provide superior quality full duplex Ethernet services to customers quickly and cost-effectively.

Metro WiFi Backhauling

WinLink™ 1000 Access is the ideal solution for backhauling WiFi traffic, providing backhaul to WiFi access points and metro WiFi networks in crowded environments.

Remote Site Connectivity

WinLink™ 1000 Access meets the needs of private networks such as enterprises, campuses, municipalities and government institutions that want to establish high-speed Ethernet connectivity between offices rapidly and affordably.

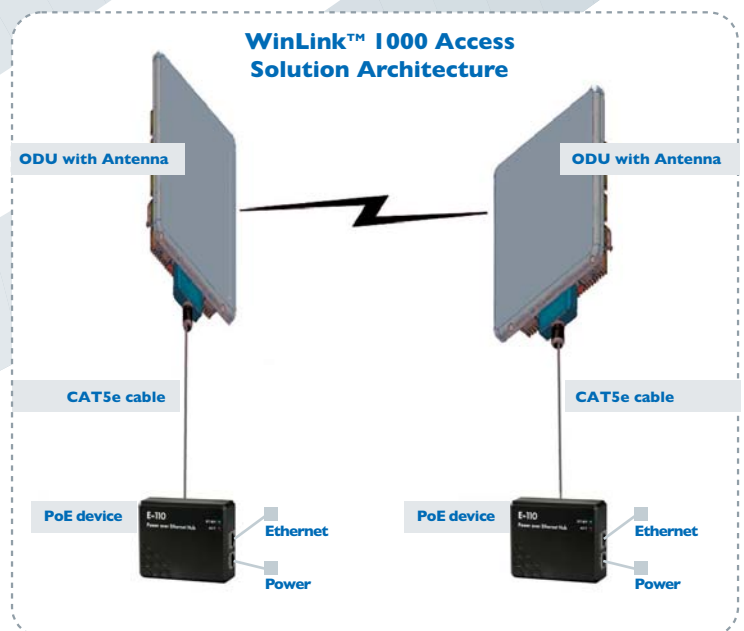
Video Surveillance

WinLink™ 1000 Access is ideal for transmitting high-quality ethernet video traffic, enabling deployment of multiple cameras in areas that are either too remote or too costly to reach with cable or fiber-based solutions.



WinLink™ 1000 Access Architecture

RADWIN's WinLink™ 1000 Access solution consists of an Outdoor Unit device (ODU) with an Integrated or External antenna and a Power over Ethernet (PoE) device on each side of the link. The PoE device supplies power over the same CAT5e twisted-pair cable that carries the Ethernet traffic to the ODU.



Configuration

| | |
|----------------------|--|
| Architecture | Outdoor Unit (Access) with PoE device |
| IDU to ODU Interface | Outdoor CAT5e cable; Maximum length: 100 m |

Radio

| | |
|-------------------|---|
| Frequency Bands | 2.300 – 2.4835 GHz 2.400 - 2.4835 GHz 5.725 – 5.850 GHz |
| Throughput | 2 Mbps full duplex |
| Channel Bandwidth | 5 MHz |
| Duplex Technique | TDD |
| Modulation | OFDM – BPSK/QPSK/16QAM/64QAM |
| Max Range | 20 Km |
| Max Tx Power | 18 dBm |
| Error Correction | FEC k=1/2, 2/3, 3/4 |

LAN Interface

| | |
|--------------------------|--|
| Type | 10/100BaseT Interface with Auto-negotiation (IEEE 802.3) |
| Number of Ethernet Ports | 1 |
| Framing/Coding | IEEE 802.3/U |
| Line Impedance | 100Ω |
| VLAN Support | Transparent |
| Connector | RJ-45 |
| Maximum Frame Size | 1800 Bytes |

Management

| | |
|----------------------|---|
| Protocol | SNMP based |
| Network Management | SNMPc based |
| Upgrade Capabilities | Local and remote 'over the air' software upgrades |

Mechanics

| | |
|---|--|
| ODU (with 1 ft flat integrated antenna) | 30.5 cm (H) x 30.5 cm (W) x 5.8 cm (D) Weight: 1.5kg / 3.3lbs |
| ODU (with no integrated antenna) | 24.5 cm (H) x 13.5 cm (W) x 4.0 cm (D) Weight: 1.0kg / 2.2lbs |
| PoE Device | 3.2 cm (H) x 9 cm (W) x 7.5 cm (D) Weight: 0.16kg / 0.35lbs |

Power and Mounting

| | |
|-------------------|-------------------------|
| Power Feeding | 110/220VAC, 50/60Hz |
| Power Consumption | <10W (ODU + PoE device) |
| Mounting | Pole and Wall |

Environmental

| | |
|-----------------------------------|---------------------------|
| Outdoor Unit Enclosure | All weather cases |
| ODU Operating Temperatures | -35°C - 60°C |
| PoE Device Operating Temperatures | 0°C - 40°C |
| Humidity (Outdoor Unit) | Up to 100% non-condensing |



Antennas

| | 2.400-2.4835 GHz | 5.725-5.850 GHz |
|-------------------------------|------------------|-----------------|
| Ift Integrated Antenna | | |
| Gain | | 22 dBi |
| Beam Width | | 9° |
| Polarization | | Linear |
| 2ft External Antenna | | |
| Gain | 24 dBi | 28 dBi |
| Beam Width | 8° | 4.5° |
| Polarization | Linear | Linear |

Regulation

| | 2.400-2.4835 GHz | 5.725-5.850 GHz |
|----------------------|------------------------------|-----------------------|
| Radio | | |
| FCC: 47CFR | Part 15, Subpart C | Part 15, Subparts C&B |
| IC | | RSS-210 |
| Safety | | |
| TUV | 60950, According to UL 60950 | |
| CAN-USA | C22.2 No.60950 | |
| EMC | | |
| FCC | CFR Part15, Subpart B | |
| CAN-ETSI | EN 301 489-1 | |
| Environmental | | |
| ETSI | IEC 60721-3-4 Class 4M5 | |
| | IP67 | |

WinLink™ 1000 Access Ordering Information

RADWIN's WinLink™ 1000 Access is available in several configurations to meet different frequency, power, antenna and collocation requirements. In the RADWIN Price List, Access products are identified by the word ACCESS in the product name. For collocated units, the Hub Site Synchronization feature is identified by the CL abbreviation. Please refer to RADWIN's Price List to see the full range of WinLink™ 1000 products and accessories.



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