



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.

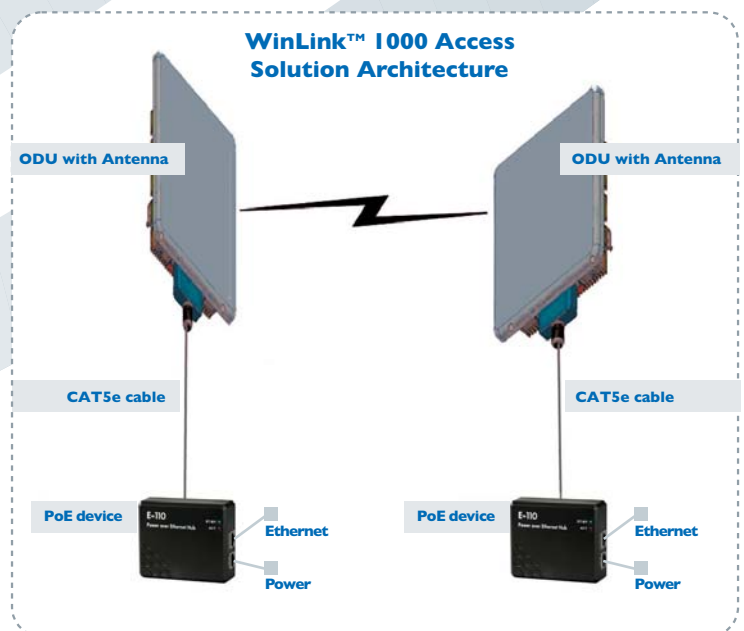
Video Surveillance

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

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|----------------------|--|
| 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

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|--------------------------|--|
| 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

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

Mechanics

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|---|--|
| 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

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|-------------------|-------------------------|
| 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 |



