

RedACCESS AN-80i

Advanced Broadband Wireless Infrastructure Solution



Features:

- Operates in license-exempt 5.4 and 5.8 GHz bands
- Industry leading with up to 48 Mbps Ethernet throughput
- Highest capacity system in the industry
- Lowest end-to-end latency in its class
- Fastest system registration time for nomadic applications
- Flexible channel size and speed selections
- Dynamic time division duplex (TDD) transmission
- A single point of management

The RedACCESS™ AN-80i is the highest capacity point-to-multipoint (PMP) system on the market today, operating in the license exempt 5GHz band. Wireless service providers can leverage the additional throughput and built-in quality of service features to provide business grade access enabling users to enjoy a mix of voice, data and video services. In addition the AN-80i is ideal for multipoint backhaul deployments allowing service providers to reduce the number of RF channels and antennas required at dense hub sites. RedACCESS is quickly becoming the industry's top choice for video surveillance projects, as end users are looking for industry leading spectral efficiency in order to support the maximum number of video cameras with the least amount of occupied spectrum.

The AN-80i is an all outdoor hardware platform powered by an industry standard Power over Ethernet (PoE) feed. The AN-80i is the most robust and reliable platform in its class, HALT accelerated life tested, with an IP67 rated outdoor enclosure and industry leading MTBF. The platform can be software upgraded between 16 and 48 Mb/s of net throughput allowing operators the commercial flexibility to pay as they grow. Available with a wide variety of antennas, the system includes an audible antenna alignment indicator and a built-in spectrum analyzer function for quick and simple installation. The product is manageable through the use of standard Web browser or through Redline's SNMP based element management system, RMS.

Redline's family of Broadband Wireless Infrastructure (BWI) products consists of both RedCONNEX point-to-point and RedACCESS point-to-multipoint solutions, available through different installations of software. Unlike 802.11 based systems, the core engine of the BWI products is based on the IEEE 802.16 family of standards with proprietary extensions designed around achieving high throughput and low latency in order to optimize performance for backhaul and premium access applications. It is this core MAC/PHY engine, that allows Redline's BWI products to achieve the best latency, highest throughput and greatest line-of-sight (LOS) and non-line-of-sight (NLOS) range in the industry.

Industry-Leading Broadband Wireless Solutions

Redline solutions deliver an unmatched combination of range, capacity, security, and reliability, even under the most challenging environmental conditions. Redline's best-in-class data rates and spectral efficiencies conserve valuable spectrum and reduce the cost of providing high-performance access. Redline solutions combine built-in security encryption with robust, extreme distance / high-bandwidth performance to deliver products that provide the reliability network operators and carriers need to grow their systems into the future.

RedACCESS AN-80i System Specifications

System Capability:	LOS, optical-LOS, and non-LOS (OFDM)	Network Connection:	10/100 Ethernet (RJ-45)
RF Band:	5.470-5.725 GHz ¹ , TDD 5.725-5.850 GHz ¹ , TDD	System Configuration:	HTTP (Web) interface, SNMPv2, Telnet
Channel Size:	10, 20 MHz	Element Management:	RMS platform support
Data Rate:	Up to 54 Mbps (uncoded burst rate) Up to 48 Mbps (ethernet rate)	Operating Temp:	-40 to 60 degrees celcius
Max Tx Power:	+25 dBm (region specific)	Power Consumption:	Standard IEEE 802.3af (15.4 W Max.)
Rx Sensitivity:	-85 dBm @ 3 Mbps max.	Power Supply:	110/220/240 VAC 50/60 Hz 18-60 VDC
PoE Cable:	Up to 91m (300 ft)	Compliance:	IEC, EN, and UL/CSA 60950 EN 301 489-1, EN 301 489-17 5.8 GHz Industry Canada RSS 210, FCC part 15, ETSI EN 302 502; 5.4 GHz Industry Canada RSS 210, FCC part 15, ETSI: EN 301 893
Network Attributes:	Transparent bridge, automatic link distance ranging, DHCP pass-through, 802.1Q VLAN		
Modulation:	BPSK to 64 QAM		
Dynamic Channel Control:	DFS		
MAC:	PMP, concatenation, TDMA fragmentation, ARQ		

1. Availability restricted by regional regulations

RedCARE Support

Redline's complete family of RedACCESS products is backed by the best support programs in the industry. Redline's exceptional network of highly trained Certified Partners provides responsive customer and solution support everywhere Redline's products are available – all fully backed by Redline's RedCARE program.

The RedCARE program is backed by Redline's decade of experience in deploying OFDM solutions for both WiMAX and backhaul network deployments. The program is delivered through a dedicated team of certified professionals. RedCARE ensures consistent, broadband wireless connectivity for our customers.

Redline Management Suite (RMS)

The award-winning Redline Management Suite (RMS) is a sophisticated element management solution that gives broadband network operators the ability to easily deploy, control, monitor and upgrade their Redline components network-wide through an intuitive, user-friendly GUI. The RMS acts as a gateway between the Redline equipment in the network and the NMS and OSS/BSS, enabling full automation in the system.

About Redline Communications

Redline Communications is the leading provider of fixed and mobile standards-based wireless broadband solutions. Redline's RedMAX™ WiMAX Forum Certified™ system, RedMAX 4C Mobile WiMAX™ products, and its award-winning broadband wireless infrastructure family of products – RedCONNEX™ and RedACCESS™ – enable service providers and other network operators to cost-effectively deliver high-bandwidth services, including voice, video and data communications. Redline is committed to maintaining its wireless industry leadership with the continued development of WiMAX and other advanced wireless broadband products. With more than 75,000 installations in 80 countries, and a global network of over 140 partners, Redline's experience and expertise helps service providers, enterprises and government organizations roll out wireless broadband networks to support advanced communications.

