

RedCONNEX AN-50e Advanced Broadband Wireless Transport Solution



Features:

- Up to 72 Mbps raw, 49 Mbps net Ethernet throughput
- Lowest end-to-end latency in its class
- Dynamic time division duplex (TDD) transmission
- Bi-directional dynamic adaptive modulation
- Point-to-Point and Point-to-Multipoint
- Redundant AC/DC Power Supplies
- DFS and ATPC
- Open architecture can be fully supported by any standards-based SNMP platform

Redline's award-winning RedCONNEX™ AN-50e is the world's first high-performance, low-cost multi-service backhaul and specialized access solution for carriers and service providers looking to cost-effectively expand their networks and profitably deliver high quality access to customers.

Operating in the 5.4 GHz and 5.8 GHz unlicensed bands, Redline's groundbreaking OFDM technology delivers an industry-leading 72 Mbps and supports long-range operations of over 80 km (50 mi) in clear line of sight (LOS) conditions. Supporting both point-to-point (PTP) and point-to-multipoint (PMP) applications, the carrier-grade RedCONNEX AN-50e system leverages advanced technologies to address inter-cell interference, non-line-of-sight (NLOS) deployments, and over-the-water applications.

Redline's RedCONNEX AN-50e provides cost-effective site-to-site connectivity for demanding applications including transparent LAN, VoIP, and high-quality video streaming. Enterprise customers, military organizations, municipalities, schools, and hospitals can add new multi-service access where costs for traditional wired services would be prohibitive. The RedCONNEX AN-50e delivers long-range wireless connectivity capabilities between widely dispersed locations using a minimum number of repeater stations - significantly reducing an operators' initial capital network expenditure.

The RedCONNEX AN-50e is built using an open architecture design and can be fully supported by any standards-based SNMP platform to achieve maximum network performance.

High throughput, long range, and low cost installation make the RedCONNEX AN-50e a compelling choice for expanding the wireless networks that deliver the 'triple play' services that subscribers demand.

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.



Leading the
WiMAX Revolution



GLOBALCOMM Award Winner

RedCONNEX AN-50e System Specifications

System Capability:	LOS, optical-LOS, and non-LOS (OFDM)	Dynamic Channel Control:	DFS, ATPC
RF Band:	5.470-5.850 GHz, TDD	MAC:	PTP, PMP, concatenation/fragmentation ² , ARQ
Channel Size:	20 MHz (5 MHz steps)	Range:	Beyond 80 km (50 mi) LOS @ 48 dBm EIRP
Data Rate:	Up to 49 Mbps average Ethernet rate	Network Connection:	10/100 Ethernet (RJ-45)
Max TX Power:	20 dBm (region specific)	System Configuration:	HTTP (Web) interface, SNMP, CLI, console (RS-232)
Rx Sensitivity:	-86 dBm @ 6 Mbps (BER of 1x10e-9)	Network Management:	SNMP: standard/proprietary MIBs
IF Cable:	Up to 228 m (750 ft)	Power:	110-240 VAC 50/60 Hz, 18-72 VDC, dual
Network Attributes:	Transparent bridge, automatic link distance ranging ¹ , 802.3x ¹ , 802.1p ¹ , DHCP pass-through, 802.1Q VLAN ² , encryption	Compliance:	EN 60950, EN 301 893, EN 301 390, EN 301 489-1 & 17, FCC part 15
Modulation:	BPSK to 64 QAM (bidirectional dynamic adaptive) ¹		

¹Point-to-Point Mode only, ²Point-to-Multipoint mode only

RedCARE Support

Redline's complete family of RedCONNEX 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 professional support and service experts.

Redline has assembled a truly world-class, multi-lingual partner support organization along with a Technical Assistance Centre staffed by experienced support engineers who ensure you always get the help you need - when you need it most.

Ease of Installation and Management

Redline's comprehensive list of award-winning broadband wireless infrastructure solutions are easier and less expensive to install, maintain, and manage than competitive products in the marketplace. Leveraging open architecture designs, Redline's advanced connectivity solutions maintain reliable links in challenging environments, minimize installation costs and enable full network element support by any standards-based SNMP platform to achieve maximum network performance.

About Redline Communications

Redline Communications is the leading provider of standards-based wireless broadband solutions. Redline's RedMAX™ WiMAX Forum Certified™ systems and award-winning RedCONNEX™ family of broadband wireless infrastructure products 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 35,000 installations in 75 countries, and a global network of over 100 partners, Redline's experience and expertise helps service providers, enterprises and government organizations roll out the services and applications that drive their business forward.

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