RedCONNEX AN-30e   Advanced Broadband Wireless Transport Solution

Features:

- Low TDM round-trip delay (RTD)

- Simultaneous transport of mixed IP and TDM traffic

- Redundant AC/DC Power Supplies

- Up to eight T1/E1 full and fractional (nx64) TDM ports

- High availability operation

- Low cost implementation and easy installation

- Full loop-back capability

- Redundant Clock References

- Open architecture fully supported by standards-based SNMP platforms

The RedCONNEX AN-30e is Redline's multi-service backhaul and advanced wireless broadband access solution for mobility networks and enterprise network operators. Operating in the 5.4 GHz and 5.8 GHz unlicensed bands, the RedCONNEX AN-30e transports up to eight full T1/E1 circuits and supports links exceeding 80 km (50 mi) in clear line-of-sight (LOS) conditions.

Redline's RedCONNEX AN-30e broadband wireless solution provides a cost-effective alternative to landline T1/E1 leased circuits. Carriers and mobility operators can deploy the RedCONNEX AN-30e as a reliable backhaul solution to quickly expand their networks without the cost overhead of leased E1/T1 circuits. The result is an accelerated return on investment that often sees network operators achieve complete equipment payback within 6-12 months.

Capable of supporting a mixture of time division multiplexed (TDM) and IP traffic applications, Redline's RedCONNEX AN-30e wireless broadband system bridges the network operators' migration path to VoIP, while providing a cost-saving, carrier-grade solution for existing voice line services. For enterprise customers, a single RedCONNEX AN-30e can be used to establish a reliable, robust radio link that will eliminate both recurring PSTN T1/E1 and data leased line circuit costs, while increasing access capacity and boosting the performance of data applications. Now municipalities, schools and hospitals can add new, multi-service access where once costs for traditional wired services would have been prohibitive.

The RedCONNEX AN-30e is built using an open architecture design and can be fully supported by any standards-based SNMP platform to achieve maximum network performance.

Robust operation, high capacity and low cost installations make the AN-30e your best choice for wireless TDM backhaul services.

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.

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RedCONNEX AN-30e System Specifications

System Capability:	LOS, and optical-LOS (OFDM)
RF Band:	5.470-5.850 GHz TDD
Channel Size:	20 MHz (5 MHz steps)
Data Rate:	Up to 44 Mbps average Ethernet rate
Max TX Power:	20 dBm (region specific)
Rx Sensitivity:	-86 dBm @ 6 Mbps (BER of 1x10e-9)
IF Cable:	Up to 228 m (750 ft) using high-grade cable
Network Attributes:	Transparent bridge, automatic link distance ranging, 802.3x flow control, encryption
Modulation:	BPSK to 64 QAM
Dynamic Channel Control:	DFS, ATPC
MAC:	PTP, concatenation, ARQ
Range:	Beyond 80 km (50 mi) LOS @ 48 dBm EIRP
Network Connections:	10/100 Ethernet (RJ-45)
System Configuration:	HTTP (Web) interface, SNMP, CLI, console (RS-232)
Network Management:	SNMP: Standard/proprietary MIBs
Power:	110-240 VAC 50/60 Hz, 18-72 VDC dual
Compliance:	EN 60950, EN 301 893, EN 301 390, EN 301 489-1 & 17, FCC part 15

TDM

Clocking:	Internal, network, adaptive
Diagnostics:	Local, remote and traffic loopback testing detects LOS, OOF, detects/generates AIS, LOS, RAI
Round-Trip-Delay:	Under 10 ms
Ports:	1 to 8 TDM ports

E1 Interface

Connector:	RJ-48c
Data Rate:	2.048 Mbps
Framing:	Unframed, CRC4, FAS/MFAS
Jitter:	ITU-T G.823
Standards:	ETS TBR 12/13, ITU-T Rec., G.703, G.704, G.706, G.732, G.821, G.826

T1 Interface

Connector:	Balanced RJ-48c
Data Rate:	1.544 Mbps
Jitter:	AT&T TR-62411, ITU-T G.824
Standards:	ANSI T1.403, ITU-T Rec. G.703, G.704, G.733, G.821, G.826

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 acheive 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.