



## Application Note - AN-80i Backhaul Solution for Transportation Networks

### **Redline's AN-80i, the latest addition to the RedCONNEX™ family of professional broadband wireless solutions, gives train operators a competitive advantage**

Rail operators face increasing competition and are seeking new opportunities to maximize revenue growth and improve operational efficiency. They need a competitive advantage that allows them to retain their existing customer base and attract new passengers. They also need a solution that enhances the overall level of communication and real time data transfer and monitoring between their trains and head office.

Competitive train operators need the AN-80i to establish reliable, robust wireless broadband links between the train and trackside to enable multiple passengers to use the wireless service simultaneously for high-bandwidth applications including streaming video and large file downloads, as well as e-mail and Internet usage, while traveling at high speeds. With Redline's AN-80i, rail operators have an opportunity to increase revenues through these high-margin services.



### **Redline's AN-80i Advantage**

Redline's AN-80i broadband wireless solution provides the high-speed connectivity that gives rail passengers uninterrupted Internet access onboard fast-moving trains. The AN-80i can be used in combination with WiMAX, WiFi and other mesh technology solutions to create seamless carrier-class networks. The robust and reliable performance of the AN-80i ensures that communications are maintained in any environment, regardless of terrain, tunnels or traffic.

The AN-80i enables the network to successfully hand off connections from one access point to another as the train moves between points without disruption to the existing connection.

The AN-80i delivers the throughput required to simultaneously support the high volumes of data transferred between multiple trains and their central operations. The long range capabilities of the AN-80i allows a more cost-effective deployment by minimizing the number of units required to support the network. The AN-80i is quick and easy to install and deploy, resulting in a rapid return on investment.

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Available via:

### Strategic Benefits

- Enhance customer experience
- Offer new, revenue-generating services
- Competitive differentiator
- Attract new customers
- Increase profitability
- Drive business transformation
- Improve operational efficiency
- Deliver seamless broadband connectivity

### Operational Benefits

- Streamlined business practices
- Rapid return on investment
- Monitor operations in real-time
- Deliver time-sensitive voice, video and security applications
- Ensure secure, high-speed data transport between multiple access points
- Deliver exceptional link reliability
- Quick to install and easy to manage

### The Wireless Broadband Technology Advantage

Redline's AN-80i professional broadband wireless infrastructure solution helps operators build communications systems that seamlessly connect multiple wireless access points with other technologies, including WiMAX, WiFi and mesh networks.

Designed for high performance and reliability in real world environments, the AN-80i is the industry's most advanced multi-service wireless Ethernet bridge available today. The AN-80i delivers unmatched capacity, range, reliability, low latency and ease of use to support both backhaul and access applications. It is the ideal choice because its high-bandwidth capabilities enable the delivery of innovative applications such as CCTV and real-time diagnostic data monitoring to be successfully delivered to and from the train.

The systems are unique in that they provide continuous high speed coverage, even through tunnels and underground sections of track. The advanced capabilities of the AN-80i overcomes signal path and physical challenges to maintain reliable connections in all environments by having mesh networks connect multiple 802.11 type wireless access points, like those used for home and business networks. Commuters increase their productivity while traveling to and from the office and operators have the tools needed to cost-effectively deliver high-margin broadband services that generate new revenue and real-time data transport and monitoring that improves operational efficiency.

### 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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