



Redline: First in WiMAX!



In January 2006, Redline became one of the first companies in the world to receive WiMAX Forum™ Certification for WiMAX wireless broadband products.

Redline's RedMAX™ Base Station (AN-100U) is the first Redline products to be certified for 802.16-2004 compliance and interoperability. This certification, combined with Redline's proven wireless broadband field experience, further strengthens Redline's WiMAX leadership.

WiMAX Forum™ Certification

WiMAX Forum Certified™ designates compliance to a rigorous, open certification process supporting the IEEE Standard 802.16-2004. The WiMAX Forum™ is certifying that products are compliant with the interoperability requirements set forth by the WiMAX Forum™ Technical Working Group. For network operators, this interoperability yields more options, the flexibility of deploying broadband wireless systems from multiple vendors into a heterogeneous infrastructure, and the knowledge that all products deployed, if certified, will interoperate seamlessly. This seamless interoperability translates into the highest level of investment protection ever delivered to network operators for a standards based deployment such as 802.16-2004.

WiMAX 802.16-2004 certification is comprised of two tests:

1. Vendor specific *conformance* testing for 802.16-2004 standards compliance including specific emphasis on:
 - Protocol Conformance Testing (PCT)
 - Radio Conformance Testing (RCT)
2. Vendor *interoperability* testing among the peer group of vendors and their products.

RedMAX

As one of the first fully-certified products, RedMAX™ solutions are clearly leading the WiMAX revolution.

Broad Portfolio Offering

RedMAX™ is the industry's most proven and certified 802.16-2004, TDD (Time Division Duplex) WiMAX solution for network operators globally.



Proven Core Technology

Each of Redline's products, including its WiMAX offerings and other wireless broadband products, use OFDM (Orthogonal Frequency Division Multiplexing) modulation, which enables robust non-line-of-sight connections, and TDD (Time Division Duplex), which allows simultaneous transmission of data in both directions between radios. Both OFDM and TDD are base technologies for WiMAX. Redline is the only WiMAX vendor with more than six years of proven field experience and real-world deployments of products that incorporate these technologies. In addition, Redline was first to market with WiMAX-based products, with the deployment of its AN-100 product based on the IEEE 802.16a standard.



Differentiated With Superior QoS

The superior QoS of RedMAX™ enables the delivery of multi-services (Triple Play) over a shared wireless infrastructure for simultaneous support for multiple grades of voice, video and data. Additionally, our superior QoS implementation assures stringent adherence to Service Level Agreements (SLAs) through the guarantee and enforcement of QoS parameters.

RedMAX™ has full support of 802.16-2004's four scheduling services:

- **Unsolicited Grant Service (UGS):** Effective for throughput, latency and jitter sensitive applications like the delivery of TDM (Time Division Multiplexing) services.
- **Real Time Polling Service (rtPS):** Effective for throughput and latency sensitive applications with looser latency tolerance than UGS. rtPS is ideal for jitter compensated applications such as VoIP and Video Conferencing.
- **Non-Real Time Polling Service (nrtPS):** Effective for throughput intensive applications with minimal guarantee on latency. nrtPS is ideal for delay and jitter compensated applications such as streaming audio or video.
- **Best Effort (BE):** Prioritized, best effort service delivery.

Finally, support for dynamic provisioning allows operators to add new services, new subscribers and even make changes to existing subscriber contracts “on-the-fly” through customer self-provisioning, eliminating the need for manual provisioning during maintenance windows. With customer self-provisioning, operators can be more responsive to requests for service contract changes, giving subscribers greater control over their own services, allowing for self-provisioned

changes through a secure Web portal, as an example.

RedMAX™ Management Suite

The RedMAX™ product family includes the RedMAX™ Management Suite (RMS), which addresses network operators' needs for reducing the operating costs associated with managing large access networks.

This comprehensive suite of applications supports FCAPS (Fault Management, Configuration, Accounting and Performance and Security), supports seamless OSS integration to enable end-to-end operations and value-added functionality to reduce network down time.

RedMAX – Maximize your Business Opportunity

RedMAX™ solutions allow for rapid deployment and reduced time-to-revenue, cost effective reach for new and existing markets, seamless integration into existing network infrastructure and guaranteed investment protection through WiMAX Forum Certified™ accreditation guaranteeing interoperability in a heterogeneous environment.

RedMAX™ - the Best Choice in WiMAX

Redline leads the wireless industry through expertise, leadership and commitment to our customers' success. With Redline's proven field experience with 802.16a and 802.16-2004 deployments, Redline can help you plan a network that meets your needs. As one of the first to be WiMAX Forum Certified™, our RedMAX™ products give you the assurance of a fully compliant and interoperable solution. Make the right choice for your business. Choose RedMAX™.

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