



RedMAX Base Station (AN-100U)



Features:

- PMP base station platform
- 2nd generation 802.16 MAC
- 3rd generation OFDM PHY
- WiMAX Forum Certified™ design
- Can be deployed in clusters of up to six sectors
- Compliance with 802.16-2004
- Strong encryption using AES or DES
- Hardware accelerated performance

The RedMAX Base Station (AN-100U) is an 802.16-2004 compliant, broadband wireless base station capable of delivering multiple services. Fully designed as a WiMAX-based solution, the RedMAX Base Station is interoperable with an emerging base of industry-wide, WiMAX-compatible equipment.

Easy and economical to deploy, the RedMAX Base Station system facilitates the rapid provisioning of new services by services providers. Its very low latency ensures reliable delivery of delay-sensitive services in particular, including circuit-switched voice traffic, voice-over-Internet Protocol (VoIP), video and prioritized data traffic. New subscribers can be provisioned dynamically with no downtime for existing users. Existing subscribers can have their contract changed dynamically.

Designed to be completely interoperable with WiMAX Forum Certified™ products, this carrier-class, point-to-multipoint (PMP) base station provides a scalable solution for any WiMAX access network. The RedMAX Base Station can be deployed in clusters of up to six (60 degree) sectors (up to six RedMAX BS can be co-located to form high capacity multisector cell deployments). The GPS time synchronization feature facilitates tight frequency reuse to make the most efficient use of available spectrum and channels, reducing interference when operating Time Division Duplexing (TDD) radios in close proximity.

The hardware is fully upgradeable in the field by software download, to accommodate future enhancements including IPv6 support, scalability, additional classifiers, alternative encryption standards, and continued development of the 802.16 standard. Adherence to stringent carrier-class NEBS Level 3 requirements provide high-reliability for mission critical deployments. Like all of Redline's 802.16-2004 products, the RedMAX Base Station addresses all of the relevant access frequency bands with ease and flexibility.

