AN-100U Overview

REDMAX™ AN-100U
WiMAX Certified Base Station

Redline's RedMAX AN-100U is the world's first WiMAX Forum Certified™ base station. Easy and cost-effective to deploy, the RedMAX AN-100U facilitates the rapid provision of new fixed and nomadic wireless broadband services by service providers , while its very low latency ensures reliable delivery of time-sensitive services, including circuit-switched voice traffic, voice-over-Internet Protocol (VoIP), video and prioritized data traffic. The AN-100U design architecture enables 'over-the-air' upgrades in the field through simplified software downloads and the ability to dynamically "on-the-fly" customize individual Quality of Service (QoS) settings, according to the service level agreement (SLA).

The RedMAX Base Station can be deployed in clusters of up to six (60 degree) sectors, supporting thousands of unique user-data flows and hundreds of simultaneous subscribers per sector. The GPS time synchronization feature ensures efficient use of available spectrum and channels, providing scalable and reliable dense cell deployment of Time Division Duplexing (TDD) base stations radios.

The hardware is fully upgradeable in the field by software download, to accommodate such future enhancements as IPv6 support, scalability, additional classifiers, alternative encryption standards, and the continued development of the 802.16 standard. Adherence to stringent carrier-class NEBS Level 3 specifications provides high reliability for mission critical deployments. The indoor unit has a selection of radios for operation in the licensed and unlicensed bands using the 802.16-2004 specified 3.5 MHz and 7 MHz channel profiles.