



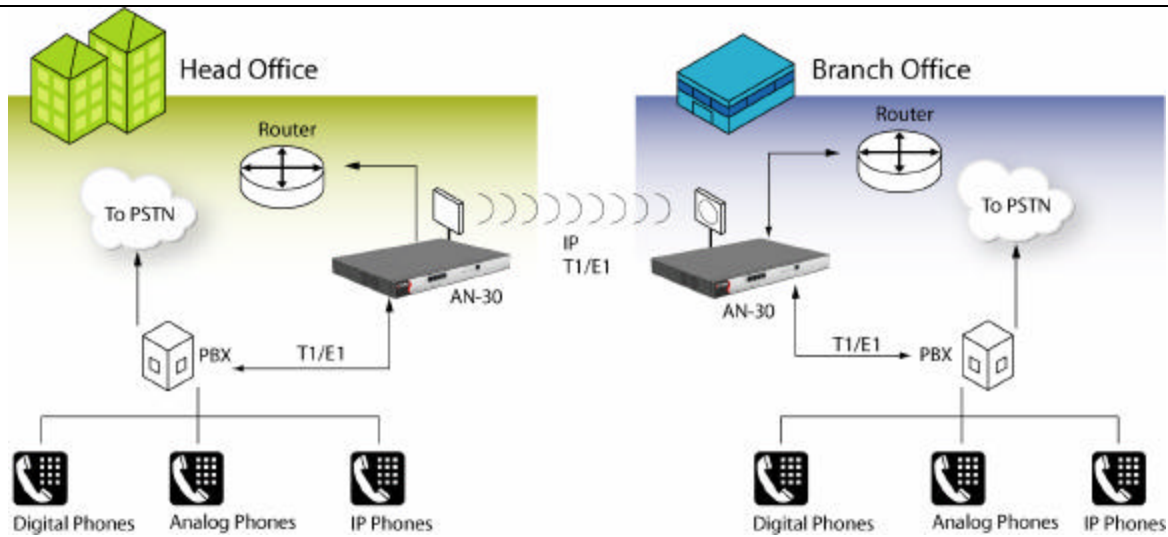
## Application Note

# Telephony Applications

Telephony systems offer an extensive array of advance applications for the convergence of voice and data. Private and public institutions are using the latest technology as a strategic tool to manage increasingly high levels of customer service. Remote branch offices now have the ability to take advantage of the PBX services typically available only at head offices. New generation telephony systems extend the head office systems to remote offices. With CTI applications, voice and computer integration is

**Wireless connectivity provides reliable high speed network links for connecting your head offices, region offices and remote branches**

driving the requirement for highly flexible system architectures.



## Business Requirement

Today's voice/data solutions require a fine balance between proven legacy technologies such as T1/E1 links, while at the same time providing for emerging packet switched technologies such as IP-PBX systems. You can protect your investment by purchasing systems that can support both types of traffic.

Equipment to connect your telephone systems together should support both circuit switched T1/E1, plus carry high data rate IP traffic.

## Wireless Advantage

Long-range outdoor wireless connections have emerged as an alternative to expensive carrier provided T1 and IP land based circuits. It is now possible to link multiple buildings together with high-speed links up to 50 miles. One initial investment replaces ongoing monthly charges from carriers, charges that escalate as your data usage increases.

Alternately wireless links can provide a very inexpensive redundant link to carry voice and data traffic to meet disaster recovery requirements.

**Redline AN-30:** Redlines AN-30 system is designed to provide voice and data solutions for:

- Medium and Large Enterprises
- Carriers and Service Providers
- Local and Regional Governments
- Schools, Libraries and Hospitals
- Public Safety Organizations
- Building Local Exchange Carriers
- Property Management Companies

#### Typical Uses

- Connect voice, video and data based equipment over long range wireless links
- Extend head office and regional office systems out to branch locations
- Connect telephone and broadband data connections Multiple Tenant Buildings (MTU)

#### Key Features

- OFDM technology provides robust wireless links even in the presence of multipath interference
- Ability to operate in some line of sight conditions
- Ranges of 80 km (50 miles)
- Extremely low latency for time sensitive applications like VoIP and video conferencing
- Adaptive modulation adapts to changing line conditions for robust link reliability
- Offers high speed 64 QAM modulation
- Carrier class remote Network Management System support
- Over the air encryption
- AN-30: Carries up to 4 T1/E1 and up to 30 Mbps over 100BaseT interface
- Single or dual AC or DC power supplies for redundancy

#### Benefits to Telephony Users

- Allows a remote PBX system to be connected without the need for expensive fiber/T1 circuits.
- Extend the life of your T1/E1 devices while enabling IP convergence
- Supports both legacy voice (T1/E1) traffic and data traffic on a single link
- Proactive remote management and diagnosis tools provide high levels of reliability for your telecom and IT staff
- Cost effective redundant link to backup land-line based facilities
- Enables TDM, VoIP, IP Data and Video transfer simultaneously
- Enables you to deep 100% ownership of the complete telephony service
- Easiest wireless system to install

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