

Cable AML News

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WIRELESS HFC EXTENSION PROVIDES CABLE RETURN PATH

Cable AML has delivered a Wireless HFC Extension to provide 54 to 870 MHz downstream service plus 5 to 42 MHz return for Cable Modems and Interactive Set-top boxes (STBs) between the master headend and a subscriber pocket at a distance of 14 miles (22.4 Kms).

Cable operators are selecting two-way AML microwave links for two-way plant upgrades because in many situations microwave has significantly lower cost than fiber. For example, the system recently delivered by Cable AML has a LOS (line of sight) distance of 14 miles, which is equivalent on the average to twenty miles (32 Kms) of fiber. Depending on terrain and other factors, fiber can cost more than twice the cost of the two-way AML link. ◆



Customer training for 2-way AML.

TWO-WAY REPEATER FOR LMDS APPLICATION

Cable AML has delivered a two-way Repeater to increase the coverage area of a Broadband Wireless System operating at 28 GHz.

Two-way Repeaters can expand coverage of point-to-multipoint fixed wireless systems at lower

cost than installing new base stations. Repeaters are particularly cost effective in cellular systems with a line-of-sight requirement, because they provide extended system range without having to install additional backhaul capacity.

Cable AML has suc-

cessfully delivered and installed two-way repeaters for fixed wireless systems operating from 2.5 to 28 GHz. The repeater is now part of a system providing multi-carrier digital television, high-speed Internet access and VoIP capability.



28 GHz outdoor 2-way repeater.

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BOEING AWARDS CONTRACT TO CABLE AML FOR DIGITAL CINEMA PROJECT

The motion picture industry is poised to make a quantum leap forward as it enters into the digital age. The new age is called Digital Cinema and it involves the production, delivery and projection of full-length motion pictures, trailers, advertise-

ments and other audio/visual "cinema-quality" programs to theatres using digital technology.

Boeing has developed a technology that enables motion pictures to be delivered in digital format directly to theaters all over the world

from a single source. The digital cinema system uses a "store-and-forward" concept to distribute motion pictures which have been digitized, compressed, encrypted and delivered to theatres via satellite. The digital film content is broadcast to the theaters from a central Network Operations Center.

Each theater will be equipped to receive, store, and play the broadcast content. Cable AML is helping Boeing build the "In Cinema Equipment" (ICE) at the Torrance facility. The ICE is an integrated rack enclosure housing satellite receivers, encryption computers, sound processors, playout servers and other miscellaneous components. ◆

Boeing ICE equipment under production at Cable AML.



WIRELESS SYSTEMS ADD IP TELEPHONY

Cable AML is providing IP Telephony equipment to users of its BWA-2000 series of fixed wireless systems. The add-on equipment makes it possible for operators to increase revenues by offering peer-to-peer, local and long distance telephony services at a competitive cost.

The promise of VoIP in particular and IP telephony in general has been

one of the main reasons why Cable AML developed IP-centric fixed

wireless systems starting in 1998, long before it became fashionable.



Recent advances in IP telephony equipment, both at the subscriber end and at the CO (Central Office) has made it financially attractive to offer this service as an additional revenue generator to many of Cable AML's broadband wireless customers. ◆

VoIP being tested over Cable AML's BWA system.



REFURBISHED AML CARRIES BROADBAND SIGNALS

Cable Operators are ordering Cable AML refurbished equipment for a cost-effective way to feed remote subscriber pockets and to improve signal quality of off-air TV signals.

For example, the customer-owned equipment shown in the photograph was re-deployed by a major system operator to serve a smaller CATV system which is 25 miles from

the nearest major market. The system had been suffering from poor off-air signals and high T-1 costs for their Cable Modem service.

Cable AML can bring you higher-quality signals and can expand your service area using cost-effective solutions with refurbished and recertified broadband AML equipment. ◆

Refurbished AML equipment.

AML CABLE MODEM RETURN SYSTEM DELIVERED

Cable AML has delivered an AML Cable Modem Return system to serve a single remote service area. The AML return system is a cost-effective method of providing cable modem service to small pockets of subscribers al-

ready served by microwave.

The AML return system was implemented in an existing link providing the full 54 to 550 MHz downstream and it covers the complete 5 to 42 MHz bandwidth used by

DOCSIS modems in the upstream. The system design allows for future expansion of the downstream carriage from 550 to 870 MHz.



Customer training for microwave cable modem return system.

UPCOMING EVENTS...

Cable AML will be attending two events in the Summer of 2002.

Cable-Tec Expo 2002

San Antonio, TX

June 5 - 7, 2002

Booth #842

<http://expo.scte.org/>

WCA 2002

Boston, MA

June 24 - 26, 2002

Booth #617

<http://www.wcai.com/events.htm>

*Be sure to stop by –
We look forward to seeing you!*

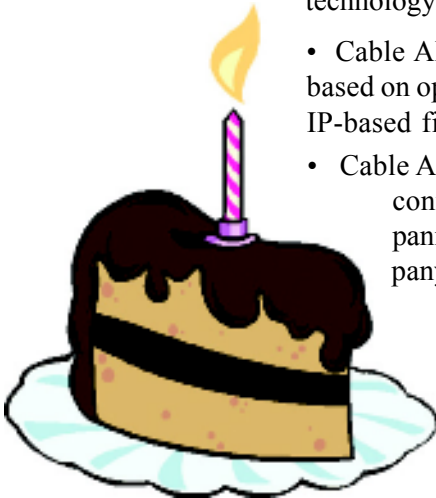
CABLE AML CELEBRATES 10TH ANNIVERSARY

Cable AML celebrated its 10th anniversary early in January 2002. The company started operations on Jan 12, 1992.

From a customer base consisting almost exclusively of Cable TV operators, Cable AML has become a supplier of goods and services to high technology companies not only in the subscription TV business (wired and wireless) but also in wireless Communications through its Broadband Wireless products. From a handful of customers in North America, we now have customers in more than 30 countries.

From the beginning, Cable AML has been focused on high technology products and complete customer satisfaction. We have set many major technology milestones in the last ten years:

- Our company's Point-to-Point AML broadband products have the highest performance of any in the industry. We were the first to introduce digitally modulated carriers to AML links, the first to develop AML at 8.5 and 14.5 GHz and the first to deliver two-way systems at 13 and 18 GHz.
- Cable AML introduced the first broadband MMDS transmitter and repeater products in the market and continues to be the leader in broadband MMDS technology.
- Cable AML pioneered broadband wireless systems based on open standards and continues to be a leader in IP-based fixed wireless systems.
- Cable AML has performed engineering work under contract for some of the most prestigious companies in the US, including Hughes Aircraft Company, Raytheon, Harris Corporation and Boeing.



On behalf of all of us at Cable AML, we wish to thank our customers, vendors and friends for their support over these past 10 years.

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broadband wireless engineering, equipment, and service