Cable AML News

Spring 2000 **Volume 6 Issue 1**

Phone 702.363.5660 / Fax 702.363.2960 / www.cableaml.com

TERRESTRIAL DIGITAL SYSTEM A SUCCESS

Cable AML's 12 GHz Digital Broadband Broadcast transmitters were used to provide live pictures of The America's Cup yacht racing to the Cup Village at Auckland's Viaduct Basin in New Zealand, where the contestants lived and prepared their yachts.

The digital signals are broadcast from Auckland's 280 meter Sky Tower, and are received using Ku band digital receivers in the World Cup Village. The transmitter is located on the 61st floor of the tower at a height of 220 meters and the antennas are another 60 meters above that. Coaxial cable is used for the initial 10 meters to get into the tower core, where a circular waveguide carries it 60 meters straight up to the transmit antenna. Sectorized custom-patterned high-gain antennas were provided by Cable AML to match optimize coverage by matching the required azimuth radiation pattern.

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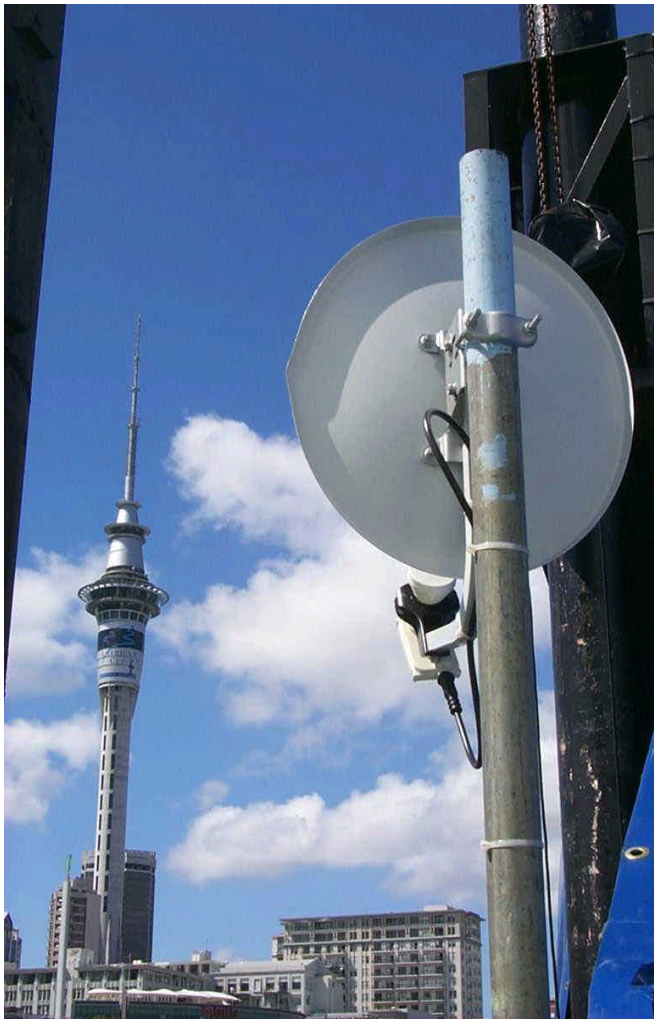

Aukland's Sky Tower (280m) transmit site and receive site at the America's Cup Village

CABLE AML EXPANDS GLOBAL PRESENCE

Cable AML continues to expand around the world. Last month we reached a new milestone: we now have equipment operating in 25 countries.

Our job is to help our customers succeed in their business. We at Cable AML want to thank our many customers all over the world that are using our products and renew our commitment to continue to support them.

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INTELLIGENT TRAFFIC SYSTEM IMPLEMENTED WITH 18 GHz AML

Cable AML recently delivered an innovative video transport system for use with Intelligent Traffic Systems.

The practical options available to reduce traffic congestion in urban areas are limited. Intelligent Traffic Systems are now seen to be the fastest and lowest cost method of improving vehicular traffic flows.

Intelligent traffic systems monitor key bottlenecks and make it possible to modulate traffic flow by controlling signals and access as the situation warrants. Monitoring is accomplished using strategically placed video cameras that feed into a central or master control center where the real time traffic patterns are evaluated and controlled by operators.

Multi-channel video transport becomes a very cost-effective way to relay the signals to the central monitoring point.

What makes this system unique is the way Cable AML has incorporated broadband microwave transmitters and repeaters to minimize the number of units required in a multi-channel monitoring system with multiple add/drop points.

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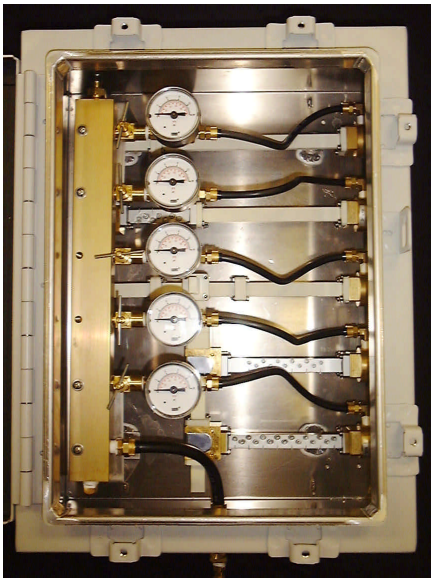
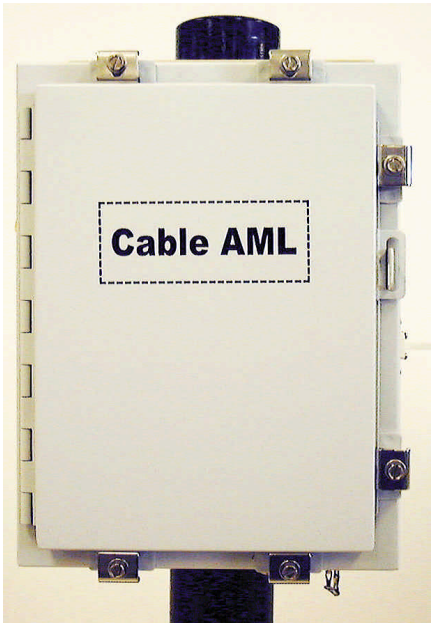
Cable AML looks forward to seeing you at the NCTA Cable Show in New Orleans, May 8 - 10.

We invite you to visit us at Booth #2765 in Hall C. Hope to see you there!



Outdoor Pressurized Combining Network



OAR18-001 Outdoor Broadband Repeater

8 GHz LINK IMPROVES SIGNAL RELIABILITY

Several years ago, Cable AML developed 8 GHz AML systems in order to provide reliable signal transportation in adverse rainfall environments.

We have just delivered another 8 GHz AML system for this purpose. The system was designed to replace an 18 GHz link which had been suffering excessive loss of signal during the intense rain periods common to the area.

A broadband transmitter and receiver pair, complete with Pilot Tone for frequency locking and receiver VHF AGC were delivered and successfully installed.

The system, operating in the 7861.905 to 8358.905 MHz band, is now in use with a channel loading of 40 analog video channels.

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Cable AML Customer, Neville Greene checking power levels during hands-on training session

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Explore our World Wide Web site: www.cableaml.com

COST EFFECTIVE LINK COMBINING AML AND FML

Cable AML has supplied a very cost-effective broadband FM link for transport of multi-channel TV broadcast signals in a multi-hop configuration involving fiber and microwave. The link involves transporting, via fiber, several CARS-band (13 GHz) FM single-channel signals from a receive location at a distant point to a Cable AML 18 GHz broadband transmitter for transmission to a 21 KM link over water.

IRX-111 Indoor Broadband Receiver used in FM multi-channel transmission

Single-channel multi-hop FM video links have been in operation for many years. As operators need to add channels or to transport digital signals, stacking single-channel radios becomes more costly and less effective.

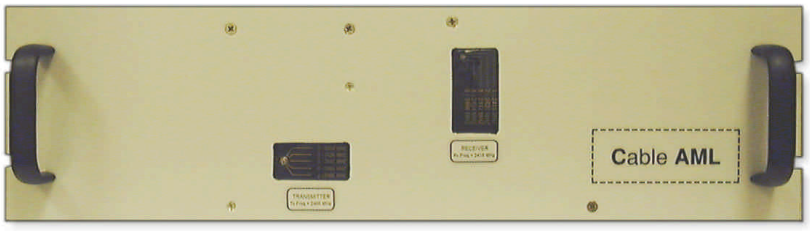
The Cable AML approach bundles the signals to eliminate the need for channel-by-channel demodulation/ modulation of the multi-channel signal at each hop, whether fiber or microwave, thereby reducing system complexity and cost.

2.4 GHz FM MINI-LINK

The Minilink 2.4 is a low power 2.4 GHz FM modulated Audio-Video link that allows transmissions of wireless signals from a remote location to a monitor or a VCR. The system uses advanced micro circuitry for a compact miniature design, all packaged within a rugged metal case.

The Minilink transmitter's output frequency is user selectable to one of five frequencies on the 2400-MHz license-free band. Ranges of up to 10 Kilometers can be achieved with this system with good fade margin performance for links requiring up to five video channels.

Upstream site of 2.4 GHz FM Mini-Link set up for performance testing



MiniLink 2.4 Modulated Audio-Video Link

APPLICATION NOTE: DIGITAL TRANSPORT THROUGH AML

Cable AML has prepared an Application Note entitled **TRANSPORT OF DIGITAL CARRIERS VIA AML RADIOS** for operators interested in more information about transporting digital signals over Amplitude Modulated Links (AML).

For a copy, please e-mail your request to sales@cableaml.com or write to Cable AML, 8689 W. Sahara Ave., Suite 280, Las Vegas, NV 89117-5872.

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The transmitters have been developed in conjunction with the transmission arm of TVNZ, Broadcast Communications Ltd. They have the ability to broadcast more than 70 channels of digital video and/or data. The current system configuration uses multi-carrier MPEG-II video with QPSK modulation.

Cable AML has developed and delivered the digital transmitters, antennas, in-band repeaters, and AGC (Automatic Gain Control) units for the state-of-the-art system.

12 GHz Outdoor Repeater Model OAR12-020

L-Band AGC Unit in test

GTV Antenna and Sky Satellite

For More Information On Any Cable AML Product or Application, Call or e-Mail:

Norman F. Woods - Applications Engineering
Tel: 702.363.5660, Fax: 702.363.2960, e-mail: sales@cableaml.com
Lorri Kaufman - Sales, Western United States
Tel: 310.548.7998, Fax: 310.548.1772, e-mail: lkaufman@cableaml.com
Keaton S. Woods - Sales, Asia, Pacific and Middle East
Tel: 808.373.8818, Fax: 808.373.2028, e-mail: kswoods@cableaml.com
Capella Telecommunications, Inc. - Sales, Canada
Tel: 705.748.3255, Fax: 705.748.4535, e-mail: inquiry@capella.ca