



**PRESS RELEASE**  
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## **Advantech Delivers 155.52 Mbps in 36 MHz**

February 26th, 2008, Montreal, Canada - Advantech AMT Inc, a leading provider of advanced satellite and microwave products and solutions, is proud to announce one of the world's first successful transmissions of 155.52 Mbps carrier over satellite with superior bandwidth and power efficiency using 64QAM and 32APSK.

The Advantech implementation incorporates the most advanced Forward Error Correction coding such as Low Density Parity Check (LDPC) with concatenated BCH using 8/9 and 3/4 code rates. LDPC has demonstrated its effectiveness, in comparison to other coding schemes such as turbo product codes (TPC) and become accepted as the new coding standard for the DVB-S2 standard. Advantech was first to market in developing DVB-S2 capable modulator supporting modulation schemes up to 32APSK. Complementing the Advantech DVB-S2 implementation is the new addition of 64 QAM with adaptive downlink equalization, which was specially introduced into the Advantech AMT-75 product line to provide an advanced modulation to further minimize the occupied satellite bandwidth.

Testing was performed by a leading North American telecom operator on a 54 MHz transponder, and demonstrated Advantech's capability to support 155Mbps carriers using both 32APSK and 64QAM. Advantech's implementation allows for 155Mbps to be supported across 36 MHz bandwidth using 64QAM 8/9 code rate. Additionally, the Advantech implementation makes it possible to support two carriers, one of 155Mbps and the other of approximately 40Mbps, across a 54 MHz transponder.

"This testing demonstrates that Advantech ranks among industry leaders in bringing advanced capability such as 64QAM, 32APSK and LDPC in very high-speed satellite links to fruition.", Dr. Vagan Shakhgildian, President of the Advantech AMT Business Unit. "Coupled with our newly available modem interfaces options of Gigabit Ethernet router, OC-3 or STM-1, Advantech can provide large scale satellite users with the means to further reduce the cost of transporting their critical data, maximizing efficiency and saving money on their infrastructure."

### *About Advantech AMT*

Advantech AMT is a world-class designer and manufacturer of leading edge Communication products for Satellite Ground Stations and for Wireless Base Stations. With offices in Canada, Europe and the U.S.A, Advantech AMT provides global product support expertise. The main products designed and manufactured by the company are Solid State Power Amplifiers (SSPA) available in output power from 1W to 3200 W, Block-Up Converters (BUCs), frequency converters, modems operating up to 140 Mbps, INTRAC™ antenna tracking control systems, data broadcast receivers, satellite terminals, and other related sub-systems. Advantech is ISO-9001: 2000 certified.

To find out more about Advantech AMT, please visit our website [www.AdvantechAMT.com](http://www.AdvantechAMT.com)



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