

NEWS

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TECHNOLOGIES

Quarterly Newsletter

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A quarterly newsletter for people in the communications industry.

Fastbit Technologies is a company that values and commits itself to engineering that simplifies broadband physical layer testing. We aim to provide you with complete test instruments with unique features. The founders of Fastbit originated from Tektronix, Hewlett Packard and Hughes Aircraft. Collectively, they have more than sixty years experience in transmission test equipment development, with world-class expertise in high-speed digital design, DSP, analog, RF, and software development. Our products are developed by test engineers for test engineers. Fastbit's product list includes: The FB100A - a high speed bit error rate test system, the FB2000A - a frequency tunable carrier/noise test system, and the FB3000A - a QPSK/QAM cable modulator.

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FB100A Parallel Interface Pod Specifications

The FB100A offers a selection of parallel interface pods to provide a wide variety of test interface configurations. Each pod is specifically designed to ...

The pods make interfacing the FB100A to the test object far simpler than with traditional BERTS by saving time and frustration.

FastBit Technology's Pod interfaces can connect to the DUT via TTL, MPEG2P, RS422, Utopia 1 & 2, ASI, OC3, and Serial/Parallel TTL logic levels...

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Cable Modem Performance Characterization

Cable Modem performance per DOCSIS Radio Frequency Interface Specification v1.1 describes measuring a post-FEC BER of less than or equal to 10^{-8} at...

BER performance must be maintained with analog and/or digital signals at image frequencies, and in adjacent cable TV channels.

The DOCSIS RFI requires setting Es / No at very low carrier power ranging from +15 dBmV to -15 dBmV. For an Es / No of 33.0 dB, this requires...

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Testing Data Embedded in MPEG Transport Stream

In transmission systems using an MPEG-2 transport stream, "null" packets are inserted by the multiplexer, when the multiplexer does not have data to transmit...

By using the FB100A along with an appropriate interface pod, a high impedance electrical connection can be made to the demodulator IC using....

Because the FB100A taps into the transport stream unobtrusively, stream continuity is maintained, and the decoder continues to perform its function.

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Measuring BER of Burst Data

Testing burst data is no longer a problem with instruments that don't lose synchronization and indicate Loss of Clock (LOC) or Loss of Data (LOD) because of long gaps in the data or clock streams.

The FB100A does not lose synchronization when there is a gapped clock or data stream.

The FB100A makes testing burst data as easy as testing continuous data.

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What's new in the news

Cable

The future of Digital Cable is looking good! Eighteen million U.S. households will have access to broadband cable Internet services by 2003, according to a new report from research firm [Myers Reports](#). The "Cable Digital Broadband Report" predicts that 36.1 percent of U.S. households will have access to some form of high-speed Internet access over the next three years; broadband cable will account for 16.9 percent of these homes.

The numbers look good, but according to Myers' chief economist Jack Myers: "Cable operators must step up their commitments to broadband, digital and interactive distribution or be faced with aggressive competition from satellite distributors." Right now cable operators are in a good market position, but unless they keep up

with consumer demand for access to new technologies their advantage could fade, he warns.

BWA

In other news, Vyvyo is teaming with Proxim to develop high speed wireless internet access solutions for multi dwelling units. The companies intend to develop interoperability between them and combine Vyvyo's MMDS, 3.5 GHz and LMDS Lite DOCSIS+ equipment for last mile broadband access, with Proxim's homeRF-based wireless networking solution, Symphony.

ASPAC Communications Korea Multinet Vyvyo
<http://www.aspac-com.com> <http://www.koreamultinet.com> <http://www.vyvyo.com>

Satellite

Americom Asia-Pacific (AAP), a joint venture between GE Americom and Lockheed Martin Global Telecommunications, has announced that its GE-1A satellite has been successfully launched. The spacecraft, which features 28 active 36 MHz Ku band transponders with 120-watt TWTAs, will be located at 108.2 E.L. and provide coverage via three beams over greater China, south and northeast Asia, and the Philippines. The company intends to use the satellite to enable other providers to offer Internet applications, VSAT, data and telecommunications services, cable and broadcast programming. The satellite is expected to be fully operational by mid November.

GE-1A Information GE Americom Lockheed Martin Global Telecommunications
<http://www.geamericom.com/satellite/ge1a.html> <http://www.geamericom.com> <http://www.lmgt.com>

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