

AHA4501 TPC

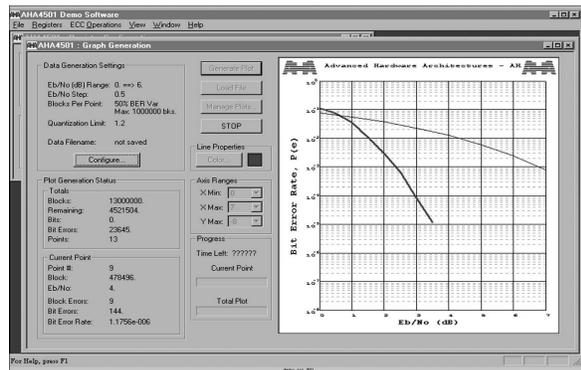
WINDOWS EVALUATION SOFTWARE

AHA offers Windows® evaluation software for system developers using the AHA4501 Turbo Product Code device. The AHA4501 Windows Evaluation Software emulates the functionality of the AHA4501 Turbo Product Code Encoder/Decoder integrated circuit.

This Windows™ 95 based software encodes and decodes user data files. The encoding/decoding performed in software exactly matches the operation of the AHA4501 TPC integrated circuit. Configuration control is provided using the same parameters as the AHA4501 IC.

Performance of the AHA4501 device can be modeled. Eb/No vs. BER (Bit Error Rate) curves can be generated for all codes supported by the AHA4501 device. Data rate, channel rate and latency of the AHA4501 device can be computed for all supported configurations.

USER INTERFACE



FEATURES

PERFORMANCE:

- Register compatible with AHA4501
- Encodes and decodes user data files
- Processes up to 10 blocks per file
- Generates Eb/No vs. BER performance curves
- Calculates channel rate, data rate and latency
- Simulates all AHA4501 codes
- Incorporates interleaving and deinterleaving
- Generates Additive White Gaussian Noise (AWGN)

FLEXIBILITY:

- Emulates AHA4501 programmable features, including block size, block code, iteration and soft/hard decision input
- Programmable block size from 256 to 4096 bits
- Two or three dimensional block codes
- Programmable number of iterations up to 32
- Programmable quantization up to 6-bits for soft or hard decision input data (decoding)

SYSTEM REQUIREMENTS:

- Windows™ 95 or Windows NT 4.0
- Intel Pentium PC or higher

The AHA Turbo Product Codes evaluation software is available to qualified customers. Please contact AHA sales for more information.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
AHATPC_EVAL_SW	Windows 95™ Turbo Product Codes Evaluation Software

RELATED PUBLICATIONS

DOCUMENT	DESCRIPTION
PS4501	AHA Product Specification -- Astro™ 36 Mbits/sec Turbo Product Code Encoder/Decoder
PB4501	AHA4501 Product Brief -- Astro™ 36 Mbits/sec Turbo Product Code Encoder/Decoder
PBGALAXY	AHA Product Brief – Galaxy Core Generator Turbo Product Code Decoder Cores
ANTPC01	AHA Application Note – Primer: Turbo Product Codes
ANTPC02	AHA Application Note – Use and Performance of Shortened Codes with the AHA4501 TPC Encoder/Decoder
ANTPC03	AHA Application Note – Turbo Product Code Encoder/Decoder with Quadrature Amplitude Modulation (QAM)
ANTPC04	AHA Application Note – Use and Performance of the AHA4501 TPC Encoder/Decoder with Differential Phase Shift Keying (DPSK)
ANTPC05	AHA Application Note – AHA4501 Designer's Guide
ANTPC06	AHA Application Note – AHA Turbo Product Codes Frequently Asked Questions (FAQ)
ANTPC07	AHA Application Note – Turbo Product Codes for LMDS
ANTPC08	AHA Application Note – Using Multiple AHA4501 Devices in Parallel for Higher Data Rates
TPCEVAL	AHA Evaluation Software – Turbo Product Codes - Windows Evaluation Software

ABOUT AHA

AHA creates and supplies high value data compression, error correction, and communications integrated circuits to our target markets with a total commitment to customer satisfaction.

Other single-chip error correction devices offered by AHA include: the Reed-Solomon Error Correction devices, AHA4011, AHA4012 and AHA4013; and the Viterbi with Reed-Solomon Decoder, AHA4210.

Additional information about AHA products and documentation may be located at <http://www.aha.com>.



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