

# TRANSCODER CARD

# TC400B

The TC400B is a half-length, low-profile PCI 2.2-compliant card for transforming complex VoIP codecs into simple codecs.

The TC400B is a bundle of our half-length, low-profile PCI-2.2 compliant TC400P base card and our TC400M voice processing module. The TC400B is designed to handle in dedicated DSP resources the complex codec translations for highly compressed audio as would otherwise be processed by Asterisk in software.



Asterisk with Digium G.729a licensing, is capable of transforming the G.729a codec into other codecs for the purposes of call origination or termination, bridging disparate calls, or VoIP to TDM connectivity. These transformations in software are very expensive, in terms of MIPS, and require a substantial amount of CPU time to accomplish. The TC400B not only relieves the CPU of this duty, freeing it up to handle other tasks or to complete additional call processing; but also provides Asterisk with the capability of bridging G.723.1 (5.3kbit) compressed audio into other formats, a capability not previously possible. The TC400P decompresses G.729a (8.0kbit) or G.723.1 (5.3kbit) into u-law or a-law; or, compresses u-law or a-law into G.729a (8.0kbit) or G.723.1 (5.3kbit). The TC400B is rated to handle up to 96 bi-directional G.729a transformations or 92 bi-directional G.723.1 (5.3kbit) transformations. The TC400B does not require additional licensing fees for the use of these codecs nor does it require the registration process associated with Digium's software-based G.729a codec licensing.

#### Target Applications

Media Gateway

#### Hardware & Software Requirements

Low profile

Half-length

#### Services & Features

96 bi-directional G.729a

92 bi-directional G.723.1 (5.3kbit)

U-Law

A-Law