

## G.PAK-C6472: Holy Silicon! This Much VoIP on a Single Multi-Core DSP

Compatible TI DSP: C647x Multicore DSP

Adaptive Digital's C6472 DSP software solutions address the need for high-density VoIP and traditional telecommunications applications. Available applications include VoIP gateway, AT&T-certified G.168 echo cancellation, conferencing, and transcoding. The C6472 software is turnkey, but also include host API software to simplify the process of integrating a host processor with the DSP applications.

These C6472 solutions are based upon Adaptive Digital's G.PAK™ framework.

G.PAK is a configurable VoIP DSP application that provides flexibility while maintaining a high degree of integration. Although Adaptive Digital provides pre-built G.PAK software images for common applications, it can easily be customized to a particular application's requirements. G.PAK can be configured to include only the necessary algorithms, channel configurations, and interfaces. And if G.PAK's built-in flexibility is not enough, source code can be licensed.

White Paper available: [www.adaptivedigital.com/gpak-6472.htm](http://www.adaptivedigital.com/gpak-6472.htm)

### FEATURES & BENEFITS

- ◆ The VoIP DSP software includes all the DSP functionality necessary for most VoIP applications from IP gateways to IP phones including Adaptive Digital's patented, AT&T certified G.168 echo canceller.
- ◆ VOICE PROCESSING FUNCTIONS INCLUDE: G.168, AEC, Conferencing, DTMF, Tone Detect/Generate/Relay, AGC, VAD/CNG, T.38, G.711, G.728, G.729AB, G.723.1, G.726, AMR-NB, G.722.2 (AMR-WB), & Noise Suppression.
- ◆ G.PAK supports several channel types: TDM to Packet, PCM to TDM, Packet to Packet, TDM to Conference, Packet to Conference, and Conference Composite.
- ◆ Each channel can be dynamically set up at run time to use any of the functions selected at build time. G.168 can be configured to operate on PCM and/or Packet data.
- ◆ The combination of TI's C6472 DSP and Adaptive Digital's field-tested algorithms and G.PAK framework provide a solid foundation for the development of high-quality, differentiated telecom products.



- ◆ G.PAK enables developers to implement high-density, multi-channel, voice-over-packet applications in the shortest possible time with maximum processing performance.
- ◆ G.PAK is a "built" to order, voice over packet software solution. Spend your engineering resources on features that differentiate your product.
- ◆ A video demonstration of the G.PAK build process can be found on Adaptive Digital's web site at [http://www.adaptivedigital.com/video\\_training/GPAK/GPAK.htm](http://www.adaptivedigital.com/video_training/GPAK/GPAK.htm).
- ◆ White Paper "G.PAK-C6472: A Rapid Way to Build High Density Voice Solutions" available for download. <http://www.adaptivedigital.com/gpak-6472.htm>

### AVAILABILITY

Available now

### APPLICATION AREAS

Broadband, Communications & Telecom, Consumer Electronics, Industrial, Medical, Military, Security, Wireless



### CONTACT INFORMATION



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Application-Specific Libraries