



# Introducing the **TMS320C6211-DSK**

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*Jump-Start your fixed-point, low-cost,  
high-performance development environment for  
**ONLY \$195 !***

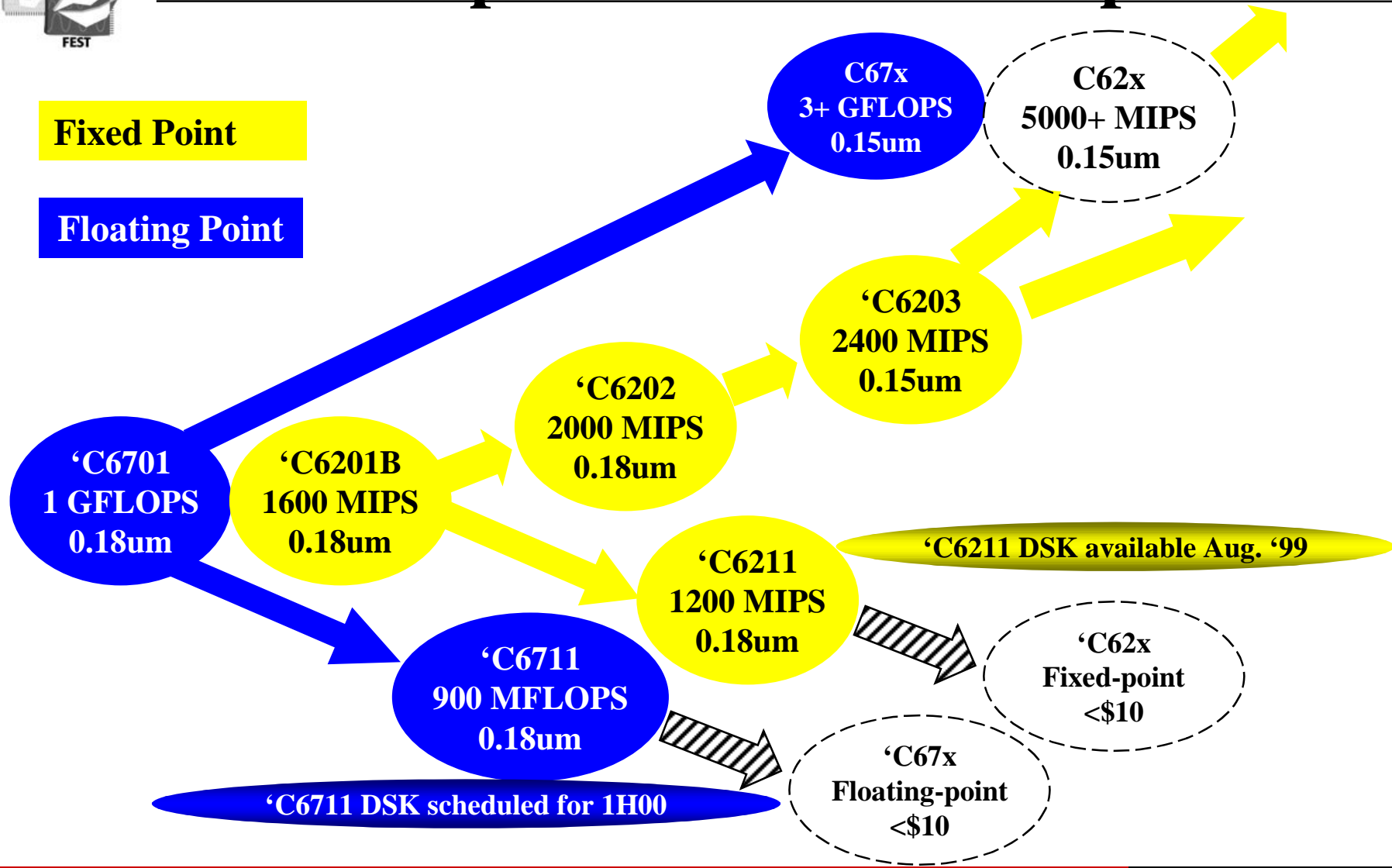
Order Entry in late August



# 'C6000 Universal Platform provides Comprehensive Roadmap

**Fixed Point**

**Floating Point**





# 'C6211-DSP Starter Kit (DSK) - \$195

## Kit Contents

### ◆ Hardware

- 150 MHz 'C6211 DSP based board
- AD535- 16-bit A/D Converter
- **External Memory**
  - ◆ 4M Bytes SDRAM
  - ◆ 128K Bytes Flash ROM
- Universal Power Supply (CE Compliant)
- Parallel Port Cable

### ◆ Software

- Code Generation Tools
  - ◆ C Compiler, Assembler & Linker
- Code Composer Debugger
- Example Programs & S/W Utilities

### ◆ On-Line Documentation

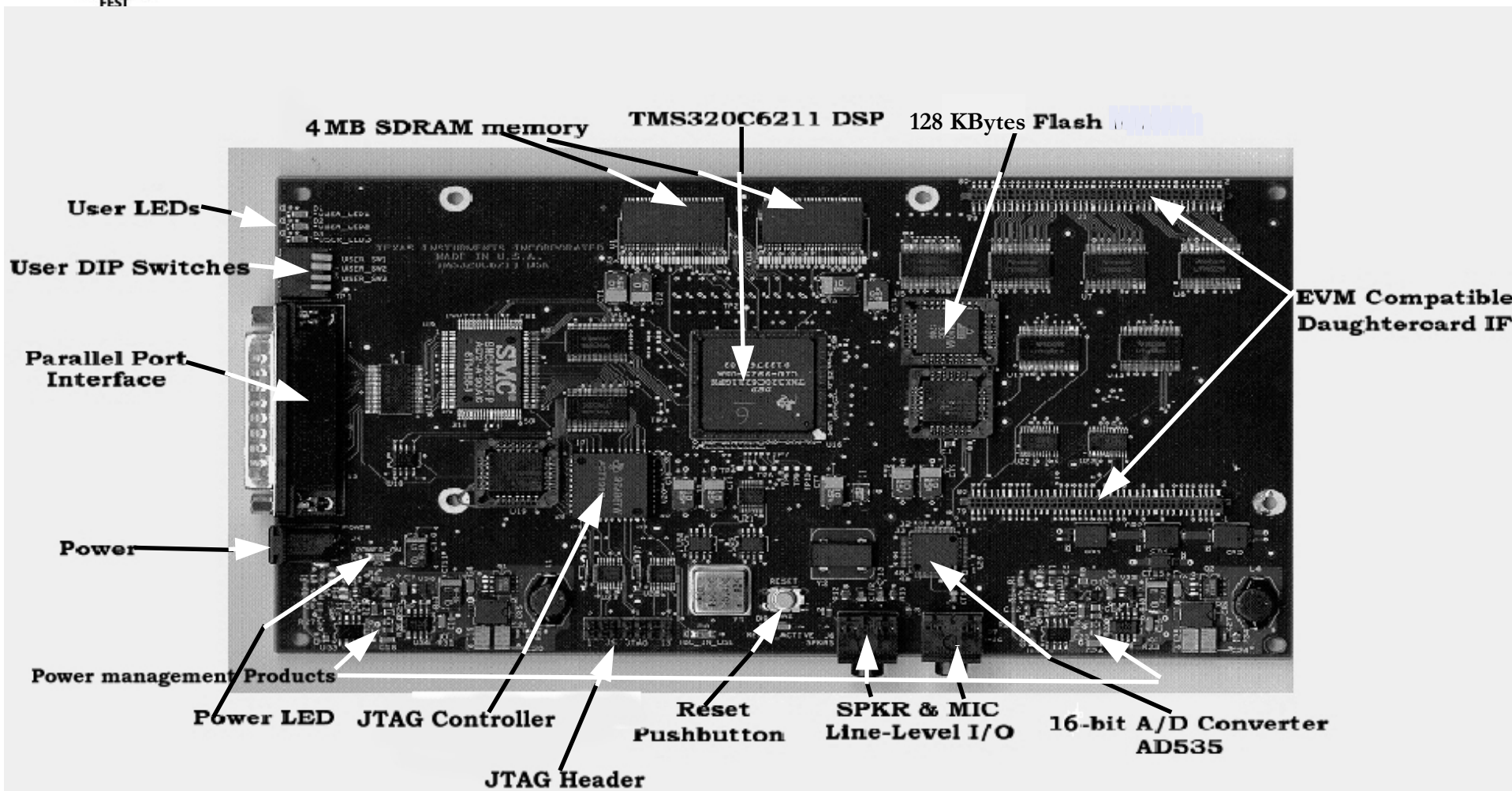
(shrink wrapped with CD ROM)

- License Agreement
- Installation instructions





# 1200 MIPS 'C6211 DSK Board



THE WORLD LEADER IN DSP AND ANALOG





# 'C6211 DSK- CD ROM Contents

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## ◆ Development Software

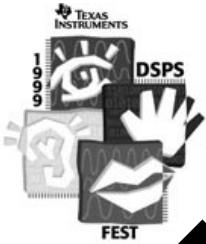
- Code Composer Debugger
  - ◆ Supports 'C6211 emulation
  - ◆ DSK Parallel Port driver
- Code Generation Tools
  - ◆ C Compiler, Assembler & Linker  
(**Limited size tools:** Maximum program size [code + data] of 256K Bytes)

## ◆ Application Software

- Example Programs & S/W Utilities
  - ◆ Power-on Self Test
  - ◆ Flash Utility Program
  - ◆ Board Confidence Test
  - ◆ Sample Program(s)

## ◆ Other DSK CD Contents

- DSK On-line Users Guide
- 'C6000 Platform Application notes
- DSK resident Stand Alone diagnostics
- DSK support Dynamic Link Library
- 'C6211 Device Data Sheet
- 'C6211 Getting Started White Paper
- 'C6000 Platform Product Bulletin
- DSK On-line technical reference



# 'C6211 DSK Lab Station in a flash!

- ◆ Connect the DSK to your PC
- ◆ Connect the power supply
- ◆ Install the debugger software (Code Composer)
- ◆ Set up the debugger environment and run confidence test
- ◆ Run sample programs and start writing code





# Code Composer: Debug Interface

The screenshot shows the Code Composer IDE interface for a TMS320C6211 DSP. The interface is divided into several panes:

- Menu bar:** Located at the top, containing File, Edit, View, Project, Debug, Profiler, Option, GEL, Tools, Window, and Help.
- Project files:** A tree view on the left showing the project structure, including 'GEL files' and 'Project'.
- Dis-Assembly:** A window showing the assembly code for the current program. The instruction at address 00000884 is highlighted in yellow: `00000884 00008000 NOP`. A blue arrow points from this instruction to the 'Current program execution point' label.
- Memory (32-Bit Hex - C Style):** A window showing the memory dump. The address 0x00000210 is highlighted in red, indicating a break point. A blue arrow points from this address to the 'Break point' label.
- Current program execution point:** A window showing the C source code for 'CnfDSP.c'. The line `while(handShakingBuffer[4] != HOST_STATUS_INPUT_READY` is highlighted in yellow. A blue arrow points from this line to the 'Current program execution point' label.
- Stdout window:** A window at the bottom left showing the output of the program, including the message 'Hand Shake Complete.' and 'DSP Ready for HOST Command.'.
- Command window:** A window at the bottom right showing the command 'go main' and the 'Execute' button. A blue arrow points from this window to the 'Command window' label.



# 'C6000 EVM Tools Available Today

## ◆ Evaluation Module (EVM)

- Device evaluation, benchmarking & system debug (PCI Plug-in boards)
- Available Today:
  - ◆ 'C62x / 'C67x EVM Bundle - \$ 1,995 / \$ 2,495  
Part #'s : TMDS326006201 / TMDX326006701
    - EVM + Code Composer Studio Compile Tools and Code Composer Studio EVM specific Debugger
  - ◆ 'C62x / 'C67x EVM - \$ 995 / \$ 1,495  
Part #'s : TMDS3260A6201 / TMDX3260A6701
    - PCI Board, Documentation, EVM Support SW and Code Composer Studio EVM specific Debugger
  - ◆ 'C62x Multi-channel EVM Bundle- \$ 3,995  
Part # : TMDS3260M6201
    - 'C6201B PCI Board, Code Composer Studio Compile Tools and Code Composer Studio EVM specific Debugger, EVM host S/W: Configuration, Test & Comm. Example Programs, DSP S/W: McBSP, Codec & Board Example Programs.



<http://www.ti.com/sc/docs/tools/dsp/c6000developmentboards.html>



# 'C6000 *Free* Applications Resources

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## ◆ TMS320C6000 Platform Application Notes:

<http://wwwtest.itg.ti.com/sc/docs/apps/dsp/tms320c6000app.html>

## ◆ TMS320C6000 Platform System Block Diagrams:

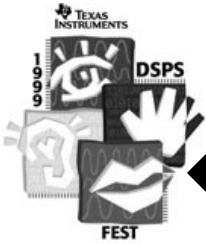
<http://wwwtest.itg.ti.com/sc/docs/apps/dsp/tms320c6000blk.html>

## ◆ TMS320C62x Fixed-point Benchmarks:

<http://www.ti.com/sc/docs/products/dsp/c6000/62bench.htm>

## ◆ TMS320C67x Floating-point Benchmarks:

<http://www.ti.com/sc/docs/products/dsp/c6000/67bench.htm>



# TMS320C6211 DSK Summary

- ◆ TMS320C6211 DSK for only **\$195** includes:
  - 150 MHz 'C6211 DSP
  - AD535 16-bit A/D Converter
  - 4M Bytes SDRAM / 128K Bytes Flash External Memory
  - Code Composer Debugger and Code Generation Tools
  - CD ROM with Example Programs and S/W Utilities
- ◆ Order entry will open in Late August
- ◆ Easy to install and start writing code immediately
- ◆ Migration to 'C6x EVM and Code Composer Studio is easy!
- ◆ 'C6711 DSK release scheduled for 1H00

<http://www.ti.com/sc/docs/tools/dsp/index.html>

**Current ORDERABLE PART#:  
TMDX320006211**



# *Things to Remember*

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- ◆ *You can jump-start your fixed-point, low-cost, high-performance development environment with a TMS320C6211 DSK for only \$195*
- ◆ *Visit TI's Development Tool Page at:  
<http://www.ti.com/sc/docs/tools/dsp/index.html>*
- ◆ *Check out the Product Expo Tomorrow night!*



# ‘C67x - The BEST Long Term Investment for Floating Point DSP

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- ◆ Code Compatible Roadmap to 3 GFLOPS and beyond
- ◆ Best Value
  - \$0.03/MFLOPS Today
- ◆ Best in Class Tools
  - Industry Leading C Compiler
  - Code Composer Studio
- ◆ Compatible Fixed and Floating Point Architecture
- ◆ Broader Peripheral Roadmap
- ◆ Roadmap to \$10