# EMBEDDED SOFTWARE

## CODE COMPOSER DEVELOPMENT TOOLS

TEXAS INSTRUMENTS Authorized Distributor

**Code Composer** is a fully integrated development environment (IDE) with DSP-specific functionality. With its familiar MS-Visual C++ like environment, Code Composer lets you edit, build, debug, profile and manage projects from a single unified environment. Other unique features include graphical signal analysis, injection/extraction of data signals via file I/O, multi-processor debugging, automated testing and customization via a C-interpretive scripting language and much more.

| Mfg. Part No. | Software Edition | License Type | No. of Licenses | Stock No. | Price Each 1+ |
|---|---|---|---|---|---|
| TMDS3240130 | ... | ... | 1 | 50B7926 | --- |
| TMDSCCS-ALLF01 | Platinum | Floating | 1 | 25R0015 | --- |
| TMDSCCS-ALLN01 | Platinum | Node Locked | 1 | 25R0020 | --- |
| **C2000** | | | | | |
| TMDSCCS2000-1 | Platinum | ... | 1 | 32H6529 | --- |
| **MSP430** | | | | | |
| MSP-CCE430PRO | Professional | ... | 1 | 40K7775 | --- |

PIM_74640

## XDS100 EMULATORS

TEXAS INSTRUMENTS Authorized Distributor


**Features**
- USB bus powered, no power supply required
- Supports USB 1.x and USB 2.0 (high speed)
- Compatible with +1.8V to +3.3V processors

The Spectrum Digital XDS100v2 is the second generation of the XDS100 family of debug probes (emulators) for TI processors. The XDS100 family features the lowest cost of all the XDS family of debug probes while supporting the traditional JTAG standard (IEEE1149.1). Also, all XDS debug probes support Core and System Trace in all ARM and DSP processors that feature an Embedded Trace Buffer (ETB).

| Mfg. Part No. | Description | Stock No. | Price Each 1+ |
|---|---|---|---|
| **JTAG Emulator** | | | |
| TMDSEMU100V2U-20T | 20-Pin cTI Version | 64R0682 | --- |

PIM_196452

## C6000™ FLOATING POINT DSPs

RoHS Compliant Available

TEXAS INSTRUMENTS Authorized Distributor

The C67x floating-point DSP generation provides a range of high-performance floating-point processors that will enable new innovations in cost-sensitive applications such as professional and home audio, industrial automation, voice and speech recognition as well as high-end graphics and imaging. Features: 2-(32-bit) timers, and 1-(32-bit) external memory interface. Additional information is available on TI's floating point DSPs.

| Mfg. Part No. | Case Style | I/O's | No. of Bits | Frequency | Supply Voltage | Stock No. | Price Each 1+ |
|---|---|---|---|---|---|---|---|
| **HPI, I2C, McBSP, SPI, TDM** | | | | | | | |
| TMS320C6713BGDP22 | BGA-272 | 16 | 32/64bit | 225MHz | 1.14V-1.32V | 95H4528 | --- |
| **HPI, McBSP, SPI** | | | | | | | |
| TMS320C6701GJC150 | FC/CSP-352 | 10 | 32bit | 150MHz | 1.71V-1.89V | 75C9714 | --- |
| TMSC6701GJC16719V | FC/CSP-352 | 10 | 32bit | 167MHz | 1.81V-1.99V | 76C9441 | --- |
| **I2C, SPI** | | | | | | | |
| TMS320C6713BGDP30 | BGA-272 | 16 | 64bit | 300MHz | 1.33V-1.47V | 01J0936 | 16.67 |

PIM_74629

## C5000™ POWER-EFFICIENT DSPs

TEXAS INSTRUMENTS Authorized Distributor

**Applications**
- Digital music players
- VoIP
- Hands-free accessories
- GPS receivers
- Portable medical equipment

RoHS Compliant Available

The **TMS320C5000™** DSP platform is optimized for personal and portable products by offering the industry's lowest standby power and advanced automatic power management.**TMS320C54x™** DSPs provide a broad range of performance and peripheral options for personal and portable communications systems. **TMS320C55x™** DSPs feature advanced power management techniques which automatically power down inactive peripherals, memory and core functional units increasing battery life. Also included are the OMAP™ devices with low-power, real-time signal processing coupled with the command and control functionality of an ARM. Power dissipation: 40mW @ 50MHz.

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## C5000™ POWER-EFFICIENT DSPs (CONT.)

| Mfg. Part No. | Case Style | Frequency | No. of Bits | Supply Voltage | Stock No. | Price Each 1-9+ |
|---|---|---|---|---|---|---|
| **HPI, I2C, McBSP** | | | | | | |
| ● TMS320VC5503PGE | LQFP-144 | 200MHz | 16bit | 1.14 V-1.26 V | 21J9168 | --- |
| **HPI, I2C, McBSP, SPI, UART** | | | | | | |
| ● TMS320VC5501PGF300 | LQFP-176 | 300MHz | 32bit | 1.2 V-1.32 V | 10J9723 | --- |
| **HPI, I2C, McBSP, UART** | | | | | | |
| ● TMS320VC5502PGF200 | LQFP-176 | 200MHz | 32bit | 1.2 V-1.32 V | 10J9724 | --- |
| ● TMS320VC5502PGF300 | LQFP-176 | 300MHz | 32bit | 1.2 V-1.32 V | 10J9725 | --- |
| **HPI, I2C, McBSP, USB** | | | | | | |
| TMS320VC5509AGHH | BGA-179 | 200MHz | 32bit | 1.55 V-1.65 V | 92H7534 | --- |
| ● TMS320VC5509AZHH | BGA-179 | 200MHz | 32bit | 1.55 V-1.65 V | 92H7536 | --- |
| ● TMS320VC5507PGE | LQFP-144 | 200MHz | 16bit | 1.55 V-1.65 V | 21J9170 | --- |
| ● TMS320VC5509APGE | LQFP-144 | 200MHz | 32bit | 1.55 V-1.65 V | 21J9171 | --- |
| **HPI, McBSP** | | | | | | |
| ● TMS320VC5416PGE120 | 144 | 120MHz | 16bit | 1.42 V-1.65 V | 67K1287 | --- |
| ● TMS320VC5402ZGU100 | BGA-144 | 100MHz | 16bit | 1.71 V-1.98 V | 61K1848 | --- |
| ● TMS320VC5416ZGU160 | BGA-144 | 160MHz | 16bit | 1.55 V-1.65 V | 87H2868 | --- |
| ● TMS320VC5510AZGWA2 | BGA-240 | 160MHz | 32bit | 1.55 V-1.65 V | 10J9727 | --- |
| ● TMS320VC5510AZGW2 | BGA-240 | 200MHz | 32bit | 1.55 V-1.65 V | 87H2870 | --- |
| ● TMS320VC5402PGE100 | LQFP-144 | 100MHz | 16bit | 1.71 V-1.98 V | 72K9586 | --- |
| ● TMS320VC5410APGE12 | LQFP-144 | 120MHz | 16bit | 1.42 V-1.65 V | 76C9617 | --- |
| ● TMS320VC5410APGE16 | LQFP-144 | 160MHz | 16bit | 1.55 V-1.65 V | 67K1286 | --- |
| ● TMS320VC5416PGE160 | LQFP-144 | 160MHz | 16bit | 1.55 V-1.65 V | 72K9587 | --- |
| ● TMS320VC5409APGE16 | LQFP-144 | 160MHz | 16bit | 1.55 V-1.65 V | 76C9610 | --- |
| ● TMS320VC5402APGE16 | LQFP-144 | 160MHz | 16bit | 1.55 V-1.65 V | 76C9603 | --- |
| **I2C, McBSP, USB** | | | | | | |
| ● TMS320VC5506ZHH | BGA-179 | 108MHz | 16bit | 1.14 V-1.26 V | 20M5849 | --- |

PIM_80448

## DAVINCI™ DIGITAL MEDIA PROCESSORS

RoHS Compliant Available

TEXAS INSTRUMENTS Authorized Distributor

**Applications:**
- Digital cameras
- Video telephones
- IP set-top box
- Automotive infotainment
- Video security
- Portable media players
- Medical imaging
- Networked video for emerging applications

DaVinci processors leverage the TMS320C64x+™ DSP core and consists of scalable, programmable Digital Signal Processing SoCs, accelerators and peripherals that are optimized for a broad spectrum of digital video end equipments.

| Mfg. Part No. | Case Style | Frequency | No. of Bits | Supply Voltage | Stock No. | Price Each 1-4+ |
|---|---|---|---|---|---|---|
| **HPI, I2C, I2S, JTAG, MII, PCI, SPI** | | | | | | |
| TMS320DM642AGNZ7 | FCBGA-548 | 720MHz | 64bit | 1.4 V | 40K9745 | --- |
| **I2C, SPI, UART** | | | | | | |
| ● TMS320DM6441AZWT | BGA-361 | 513MHz | 64bit | 1.05 V-1.2 V | 96M4797 | --- |
| ● TMS320DM355ZCE216 | NFBGA-337 | 216MHz | 32bit | 1.3 V | 53M5576 | --- |
| **I2C, SPI, UART, USB** | | | | | | |
| ● TMS320DM355ZCE270 | NFBGA-329 | 270MHz | 32bit | 1.235 V-1.365 V | 85M0162 | --- |
| ● TMS320DM6446AZWT | NFBGA-361 | 594MHz | 32bit | 1.2 V | 96M4799 | --- |

PIM_98696

## BLACKFIN® SERIES DIGITAL SIGNAL PROCESSORS

RoHS Compliant Available

ANALOG DEVICES
AHEAD OF WHAT'S POSSIBLE™

**Blackfin® Processors** using a 16-bit RISC programming model, are designed specifically to meet the computational demands and power constraints of today's embedded audio, video, and communications applications. Blackfin Processors are ideal for portable and networked digital media appliances, automotive telematics, communications and networks.The processors have built-in, fixed-point digital signal processor (DSP) functionality supplied by 16-bit Multiply–accumulates (MACs), accompanied on-chip by a small microcontroller.

| Mfg. Part No. | Case Style | I/O's | No. of Bits | Frequency | Supply Voltage | Stock No. | Price Each 1-9+ |
|---|---|---|---|---|---|---|---|
| **CAN, PPI, SPI, TWI, UART** | | | | | | | |
| ● ADSP-BF537BBCZ-5A | BGA-182 | 48 | 16/32bit | 500MHz | 0.8V-1.32V | 21M6774 | --- |
| ● ADSP-BF537BBCZ-5AV | BGA-182 | 48 | 16/32bit | 533MHz | 0.8V-1.375V | 64M7483 | --- |
| **PPI, SPI, UART** | | | | | | | |
| ● ADSP-BF533SBBCZ400 | BGA-160 | 16 | 16/32bit | 400MHz | 0.8V-1.45V | 50M0797 | --- |
| ● ADSP-BF533SBBCZ500 | BGA-160 | 16 | 16/32bit | 500MHz | 0.8V-1.45V | 19M0727 | --- |
| ● ADSP-BF561SBBZ600 | BGA-297 | 48 | 16/32bit | 600MHz | 0.8V-1.4185V | 21M6776 | --- |
| ● ADSP-BF561SKBCZ-6A | CSPBGA-256 | 48 | 16/32bit | 600MHz | 0.8V-1.4185V | 41M1931 | --- |

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