



## **DEVELOPMENT TOOLS**

### **Kits Components List**

#### **Motion Control Kits**

##### **\* MCK240 DSP Motion Control Kit**

- MSK240 DSP board with an on-board three-phase inverter (50W)
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV240, Evaluation software (with ASM source code)
- DMCD-Lite, Digital Motion Control Developer Software
- Brushless Motor Control Demos: trapezoidal and sinusoidal modes
- User manual
- Reference Manuals for TMS320F240

##### **\* MCK243 DSP Motion Control Kit**

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interfaces
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Lite, Digital Motion Control Developer Software
- Brushless Motor Control Demos: trapezoidal and sinusoidal modes
- User manual
- Reference Manuals for TMS320F243

##### **\* MCK2407 DSP Motion Control Kit**

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12-bit accuracy D/A outputs, RS-232 and JTAG interfaces
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- DMCD-Lite, Digital Motion Control Developer Software
- Brushless Motor Control Demos: trapezoidal and sinusoidal modes
- User manual
- Reference Manuals for TMS320LF2407

#### **Motion Starter Kits**

##### **\* MSK243 DSP Motion Starter Kit**

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Lite, Digital Motion Control Developer Software
- User manual
- Reference Manuals for TMS320F243

##### **\* MSK2407 DSP Motion Starter Kit**

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12-bit accuracy D/A outputs, RS-232 and JTAG interface
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- DMCD-Lite, Digital Motion Control Developer Software
- User manual
- Reference Manuals for TMS320LF2407



## Professional Development Kits

### \* MSK240 Pro

- MSK240 board with TMS320F240 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- Real-time serial communication monitor
- PROCEV240, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- User manual
- Reference Manuals for TMS320F240

### \* MSK243 Pro

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interfaces
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- User's manual
- Reference Manuals for TMS320F243

### \* MSK2407 Pro

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12-bit accuracy D/A outputs, RS-232 and JTAG interfaces
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- User's manual
- Reference Manuals for TMS320LF2407

### \* MSK240 Kit C Pro

- MSK240 board with TMS320F240 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- Real-time serial communication monitor
- PROCEV240, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F240

### \* MSK243 Kit C Pro

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F243

### \* MSK2407 Kit C Pro

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12-bit accuracy D/A outputs, RS-232 and JTAG interface
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320LF2407

**\* MCK240 Kit A Pro**

- MSK240 board with TMS320F240 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface with an on-board three-phase inverter (50W)
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV240, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- User manual
- Reference Manuals for TMS320F240

**\* MCK243 Kit A Pro**

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- User manual
- Reference Manuals for TMS320F243

**\* MCK2407 Kit A Pro**

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12 bits accuracy D/A outputs, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- User manual
- Reference Manuals for TMS320LF2407

**\* MCK240 Kit C Pro**

- MSK240 board with TMS320F240 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface with an on-board three-phase inverter (50W)
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV240, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F240

**\* MCK243 Kit C Pro**

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F243

**\* MCK2407 Kit C Pro**

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12 bits accuracy D/A outputs, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320LF2407

**\* MCK240 Motion Control Development Package Kit D**

- MSK240 board with TMS320F240 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface with an on-board three-phase inverter (50W)
- Brushless motor equipped with Hall sensors and 500-line encoder
- ACPM750E, 3-phase IGBT power module (1~220V input, 750W, 4A)
- RDIM16, Resolver to Digital Interface
- IB 240, I/O evaluation board
- Real-time serial communication monitor
- PROCEV240, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- DMCS-ac, Digital Motor Control Solution toolbox
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F240

**\* MCK243 Motion Control Development Package Kit D**

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- ACPM750E, 3-phase IGBT power module (1~220V input, 750W, 4A)
- RDIM16, Resolver to Digital Interface
- IB 240, I/O evaluation board
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- DMCS-ac, Digital Motor Control Solution toolbox
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F243



## Professional Development Kits with Applications

### \* MCK240 Kit C Pro - S(BL)

- MSK240 board with TMS320F240 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface with an on-board three-phase inverter (50W)
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV240, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – S(BL), Source code application for speed control of a Brushless Motor (sinusoidal and trapezoidal mode)
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F240

### \* MCK243 Kit C Pro - S(BL)

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – S(BL), Source code application for speed control of a Brushless Motor (sinusoidal and trapezoidal mode)
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F243

### \* MCK2407 Kit C Pro - S(BL)

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12 bits accuracy D/A outputs, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – S(BL), Source code application for speed control of a Brushless Motor (sinusoidal and trapezoidal mode)
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320LF2407

**\* MCK240 Kit C Pro - S(IM)**

- MSK240 board with TMS320F240 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface with an on-board three-phase inverter (50W)
- ACPM750E 3-phase IGBT power module (750w, 4A)
- Real-time serial communication monitor
- PROCEV240, Processor evaluation software (with ASM source code)
- Induction motor 230 VAC, 370W with encoder
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – S(IM), Source code application for speed control of Induction Motor (Vector Control and V/f)
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F240

**\* MCK243 Kit C Pro - S(IM)**

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- ACPM750E 3-phase IGBT power module (750w, 4A)
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- Induction motor 230 VAC, 370W with encoder
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – S(IM), Source code application for speed control of Induction Motor (Vector Control and V/f)
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F243

**\* MCK2407 Kit C Pro - S(IM)**

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12 bits accuracy D/A outputs, RS-232 and JTAG interface
- ACPM750E 3-phase IGBT power module (750w, 4A)
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- Induction motor 230 VAC, 370W with encoder
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – S(IM), Source code application for speed control of Induction Motor (Vector Control and V/f)
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320LF2407

**\* MCK240 Kit C Pro - L**

- MSK240 board with TMS320F240 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface with an on-board three-phase inverter (50W)
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV240, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – L, Object Code Library for speed control of a Brushless and an Induction Motor
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F240

**\* MCK243 Kit C Pro - L**

- MSK243 board with TMS320F243 running at 20 MHz, 32-kB 0-wait state external RAM, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV243, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – L, Object Code Library for speed control of a Brushless and an Induction Motor
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320F243

**\* MCK2407 Kit C Pro - L**

- MSK2407 board with TMS320LF2407 running at 30/40 MHz, 64-kB 0-wait state external RAM, 2x12 bits accuracy D/A outputs, RS-232 and JTAG interface
- PM50, 3-phase inverter power module
- Brushless motor equipped with Hall sensors and 500-line encoder
- Real-time serial communication monitor
- PROCEV2407, Processor evaluation software (with ASM source code)
- DMCD-Pro, Digital Motion Control Developer Software with reference and trace functions
- Brushless Motor Control Demos: trapezoidal and sinusoidal mode
- DMCode – L, Object Code Library for speed control of a Brushless and an Induction Motor
- TI software tools: C-Compiler, Assembler and Linker (TMS320C2x/C2xx/C5x)
- User manual
- Reference Manuals for TMS320LF2407