imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







8-, 16- and 32-bit Microcontrollers

Freescale Tower System

Modular demonstration and development platform for microcontrollers

Overview

The Freescale Tower System is a modular development platform for 8-, 16- and 32-bit microcontrollers that enables advanced development through rapid prototyping. Featuring multiple development boards or modules, the Tower System provides designers with building blocks for entry-level to advanced microcontroller development.

Modular and Expandable

- Controller modules provide easy-to-use, reconfigurable hardware
- Interchangeable peripheral modules serial, memory and graphical LCD – make customization easy
- Open-source hardware and standardized specifications promote the development of additional modules for added functionality and customization

Speeds Development Time

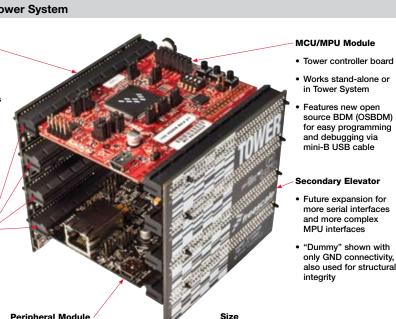
 Open source hardware and software allows quick development with proven designs

The Freescale Tower System

- Primary Elevator
 Common serial and expansion bus signals
- Two 2x80 connectors on backside for easy signal access and side-mounting board (i.e. LCD module)
- Power regulation circuitry
- Standardized signal assignments

Board Connectors

- Four card-edge connectors
- Uses PCI Express[®] connectors (x16, 90 mm/3.5" long, 164 pins)



(i.e. serial, prototype, etc.)

• Tower is approx. 3.5" H x 3.5" W x 3.5" D when fully assembled

 Open source BDM debug hardware, allowing each controller module to become a stand-alone BDM debug tool





Tower System Modules		
Features	Benefits	
Controller Modules (8-, 16-, 32-bit)		
 Works stand-alone or as part of Tower System 	Allows rapid prototyping	
• Features new open source BDM (OSBDM)	 Provides easy programming and debugging via mini-B USB cable 	
Peripheral Modules		
Can be re-used with all Tower System MCU/MPU modules Eliminates the need to buy/development redundant hardware		
 Interchangeable peripheral modules—serial, memory, graphical LCD, prototyping 	 Enables advanced development and broad functionality 	
Elevator Boards		
Two 2x80 connectors	 Provides easy signal access and side-mounting board (i.e. LCD module) 	
Power regulation circuitry	Provides power to all boards	
Standardized signal assignments	Allows for customized peripheral module development	
Four card-edge connectors available	 Allows easy expansion using PCI Express connectors (x16, 90 mm/3.5" long, 164 pins) 	

Available Tower System Modules		
Controller Modules	Price	Features
• TWR-MCF51CN	\$39	MCF51CN V1 ColdFire Ethernet module
• TWR-MCF5225X	\$49	MCF5225X V2 ColdFire Connectivity module
• TWR-S08LL64	\$69	MC9S08LL64 8-bit segment LCD module
Peripheral Modules	Resale	Features
• TWR-SER	\$49	Serial module with RS232/RS485, Ethernet, CAN, USB
• TWR-ELEV	\$29	Elevator modules: Functional and Dummy
• TWR-PROTO	\$14.99	Prototyping module
• TWR-LCD	\$99	Graphical LCD module with 3.2" QVGA display
• TWR-MEM	\$89	Memory module with Serial Flash, MRAM, SD Card and Compact Flash interfaces
• TWR-SENSOR-PAK	\$149	Swappable Sensor module with accelerometer, barometer, touch sense controller
Complete Kits	Resale	Includes
• TWR-MCF51CN-KIT	\$99	TWR-MCF51CN, TWR-SER and TWR-ELEV modules
• TWR-MCF5225X-KIT	\$119	TWR-MCF5225X, TWR-SER and TWR-ELEV modules
• TWR-S08LL64-KIT	\$99	TWR-S08LL64, TWR-PROTO and TWR-ELEV modules

Low Cost

- Peripheral modules can be re-used with all Tower System controller modules, eliminating the need to purchase redundant hardware for future designs
- Enabling technologies like LCD, serial and memory interfacing are offered off-the-shelf at a low cost to provide a customized enablement solution

Software Enablement and Support

The increasing complexity of industrial applications and expanding functionality of semiconductors are driving embedded developers toward solutions that require the integration of proven hardware and software platforms. Freescale, along with a strong alliance network, offers comprehensive solutions including development tools, debuggers, programmers and software.

Complimentary Software and Tools

- Freescale MQX RTOS, Ethernet, FileSystem, USB stacks and more
- Freescale Linux[®] BSP
- CodeWarrior Development Studio
- Processor Expert software: a rapid application development tool in the CodeWarrior tool suite
- Digital Signal Processing Library: provides algorithms optimized for the ColdFire architecture

Take your design to the next level

For a complete list of development kits and modules offered as part of the Freescale Tower System, please visit www.freescale.com/tower.

Learn More:

For more information about the Freescale Tower System, please visit www.freescale.com/tower.



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