

## Information Sheet: IPC@CHIP® SC243



The IPC@CHIP® is a universal controller and communication processor that stands out for its user-friendly software and interface features. In order to offer this level of convenience also in high-end applications such as in motion control, high-speed closed-loop controllers, sophisticated MMIs or the fast transport of large data sets, we are expanding our IPC@CHIP® range with the new IPC@CHIP® SC2x3 product family.

With 760 MIPS at a clock frequency 400 MHz, 32-bit and integrated Double Precision Floating Point Unit, the new SC2x3 modules are predestined for demanding control and communication tasks.

Up to 64 MByte SDRAM and 32 MByte Flash offer sufficient memory for extensive applications. The Flash memory can be expanded easily via SD card and Compact Flash card.

### Software

It is only the software that turns the Embedded Controller into an IPC@CHIP®. That is why the SC2x3 family also comes naturally with a pre-installed multitasking real-time operating system. The IPC@CHIP® RTOS/32 offers a powerful SC123/143-compatible API interface enabling your application to conveniently utilise the functions of the SC2x3 and the operating system.

A development system designed for the new family, consisting of a development board and the integrated C/C++ and CoDeSys development environment with integrated debugger is also available for fast product development.

As like SC1x3 and SC2x the SC243 is planned with an optional CoDeSys SP Runtime License.

	<b>SC243</b>
Package	Module 60 mm x 56 mm; 2 x 120 PIN board-to-board connector
CPU	MPC5200B / 400 MHz
RAM Memory (free)	64 MByte (~ 62 MB)
Flash Memory (free as Flash-Disk)	32 MByte (~ 26 MB)
SRAM (battery powered)	512 KB
Ethernet	1 x 10/100BaseT (MAC)
Serial	6 x TTL
CAN	2 x CAN 2.0B
Other Interfaces	2 x USB1.1, 2 x I <sup>2</sup> C, SPI
I/O	40 free prog. PIO-Pins (GPIO), 7 x Timer (In-/Out, PWM), LocalPlusBus, ATA/IDE
Supply Voltage	3,3V
Power Dissipation	max. 5W
Temperature Range	-40 to 85 °C

More Informations at <http://www.beck-ipc.com>