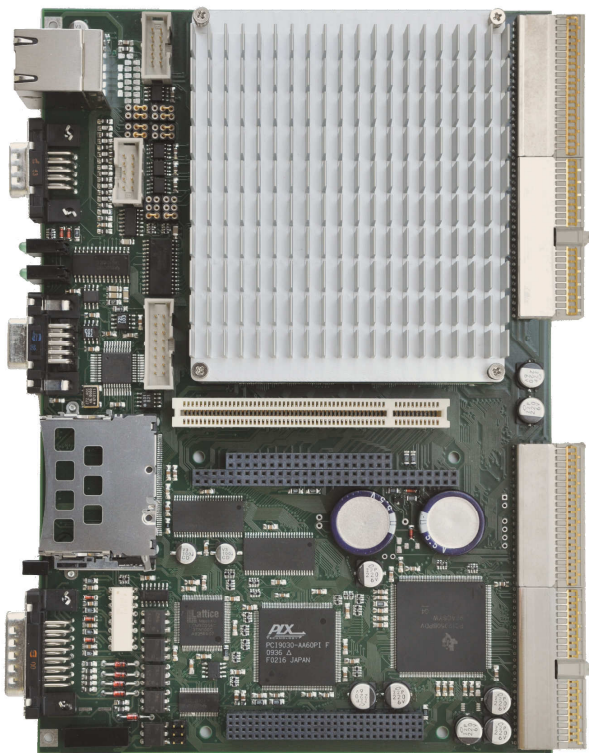




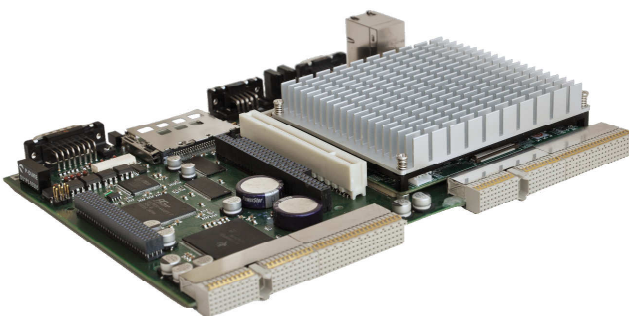
OMC520

PC Compatible Intel Atom CompactPCI CPU Card



- Embedded Intel Atom N270 1.6GHz CPU
- Developed specifically for use in industrial environments
- High computing performance with low power consumption
- Passive cooling
- No battery, no rotating parts such as fans and hard disks
- Extensible through standard PCI or PCI/104+ card
- Interfaces and functions for industrial applications: Profibus DP Slave Controller, electrically isolated digital inputs and outputs, fast watchdog, high resolution timer, flexible serial interfaces
- Up to 2GByte DRAM, 1MByte NVRAM
- 10/100Mbit/s Ethernet, USB 2.0
- Fully supported by the operating system OAGLinux V3, which is specifically designed for use in industrial real-time applications
- LEDs on front plate for function control

In combination with the CompactPCI interface card OMI500, together with up to eight interface cards of the series OIP500, and the rack OMR500, a powerful and robust CNC can be build with the CPU card OMC520.



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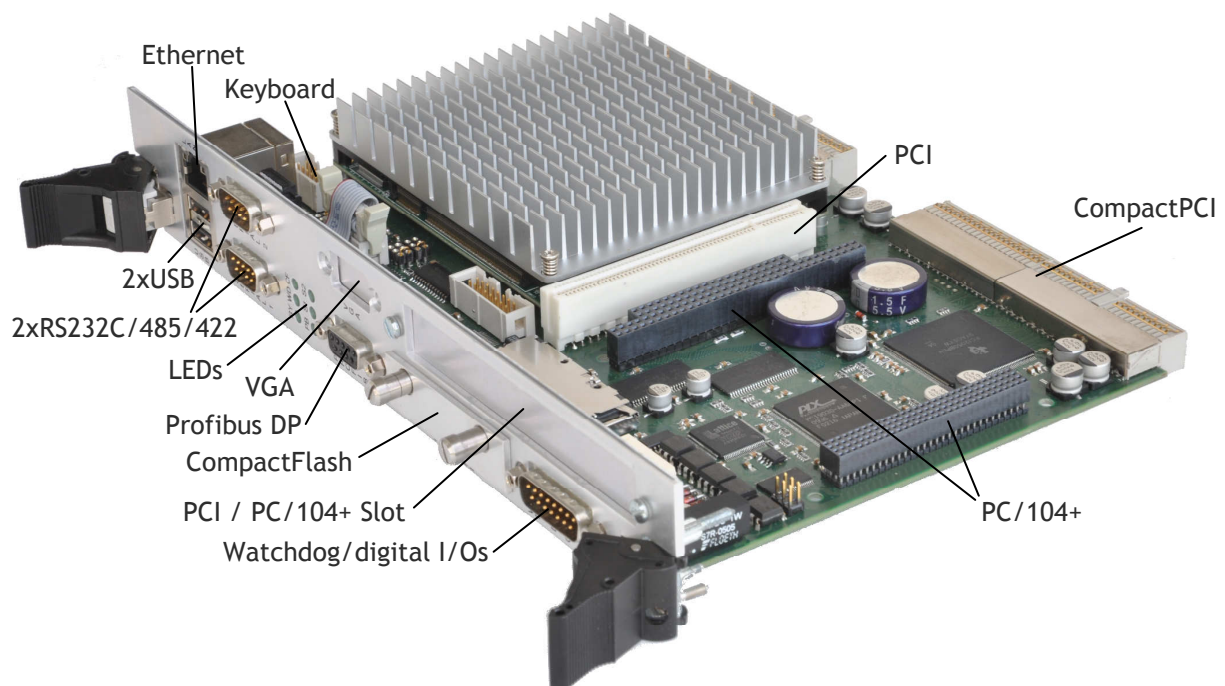
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Specification

CPU / Chipset	Embedded Intel Atom N270 1.6GHz, Intel 945GSE/ICH7M/GMA950
Main memory (DRAM)	Up to 2GByte.
Nonvolatile memory (NVRAM)	1MByte. No battery required for data retention. Can be accessed in the same way as standard main memory.
BIOS	Designed for industrial applications. No battery required for maintaining configuration data.
Compact Flash Slot	In order to use CompactFlash cards for operating system, application and user data.
PCI and PC/104+ Slot	Can be upgraded either by a standard PCI (90 degree angle adapter available as accessory) or PC/104+ card.
Profibus DP Slave Interface	Used to easily implement a fieldbus connection, e.g. for communication with PLC.
Timer	Two additional interrupt capable high-resolution timers (50us minimum).
Fast digital inputs and outputs	Four fast and interrupt capable digital inputs, four digital outputs. All electrically isolated.
High resolution programmable watchdog	Security due to short reaction time (50us minimum) for critical applications. Electrically isolated.
Real-time clock	Available with battery or super capacitor for powering the real-time clock.
Serial interfaces	Two serial interfaces, independently configurable as RS232C, RS485 or RS422.
Standard PC interfaces	2xUSB 2.0, 10/100Mbit/s Ethernet, VGA, PS/2 keyboard, diskette drive.
Interfaces in front plate	Interfaces available on the front plate: Ethernet, 2xUSB, 2xRS232C/485/422, Profibus DP, VGA, CompactFlash, Watchdog, digital inputs and outputs, Slot for PCI or PC/104+ card.
Power consumption	Less than 10Watt.
Operational conditions	Ambient temperature 0 to 40°C.



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