

PAC system MSX-Box-xxxx for the CompactPCI bus



- Open and transparent Programmable
- Automation Controller system
- With free development tools
- Live DVD based on open source programs
- Real-time measurement system

PAC systems

Programmable Automation Controller

PAC systems are mainly used for industrial measurement and control or regulation tasks as well as for motion control.

They execute several tasks simultaneously and in a deterministic way.

Core features of a PAC system:

- Compact and robust design
- Programmable
- Standard Ethernet (TCP/IP)
- CPU board as system controller
- Different I/O modules

Set course for freedom

Experience with the MSX-Box-CPCI what freedom of decision-making really means:

- You select the components of your PAC system: The MSX-Box-CPCI is based only on reliable standard technologies like for example CompactPCI backplane. Freedom also means that you can use any of the numerous standard CompactPCI I/O boards.
- You decide, whether and when to update your operating system: Using the real-time operating system Linux with RTAI extension, no need to take care of updates. Save time and money!
- You have free access to the software down to the kernel source code: You can make extensive system adaptations and realize your own optimized measurement system.

Boost your applications

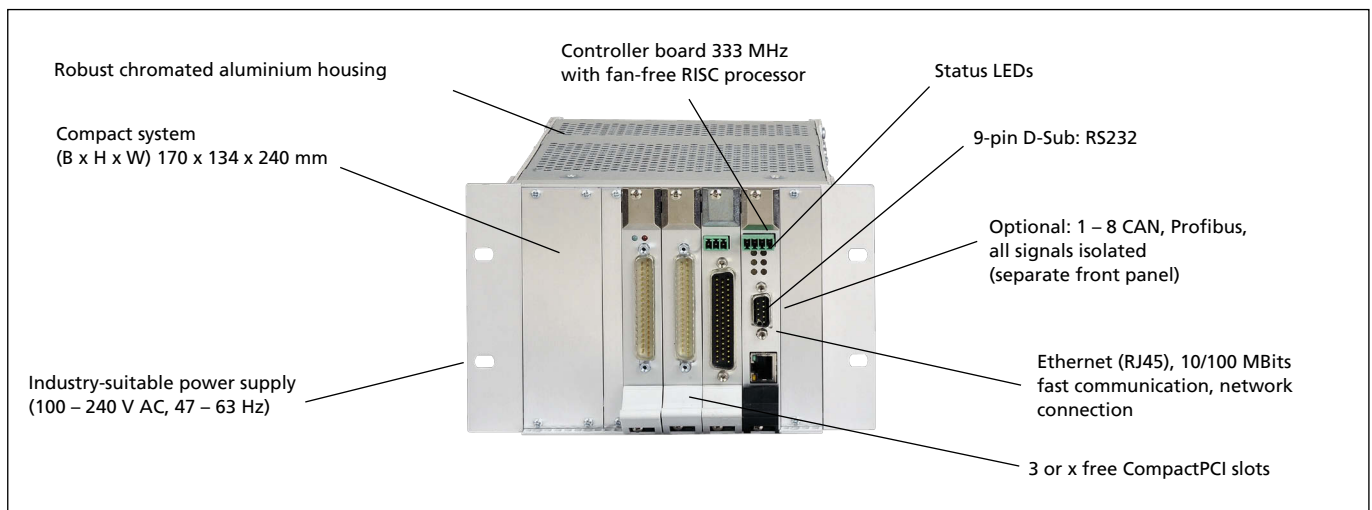
Working with the MSX-Box-CPCI that fits to your needs will boost your measurement and control applications. The MSX-Box-CPCI is supplied with development tools: You can realize even very complex tasks quite easily.

The most important advantage of a PAC system with such a transparent structure is that in case of emergency, you can react fast and efficiently.

Thanks to the long-term ADDI-DATA supply philosophy, you secure your investments for a long time. Furthermore, the fact that the MSX-Box-CPCI is supplied with free development tools limits the purchase price for serial equipment.

Experience today how to realize your applications of tomorrow:

www.msx-box.com





MSX-Box-CPCI-xxxx

CompactPCI controller board

RISC processor:	64-bit MIPS, no fan
Clock:	333 MHz
Memory:	16 MB Flash, 128 MB SDRAM, option up to 256 MB
Installed OS:	Embedded RTAI Linux
Standard interface:	D-Sub 9-pin: 1 x RS232
Safety features:	24 V reset input, H-active; Relay output, freely programmable, closing contact
Optional:	Additional front panel: D-Sub 25-pin: 1 – 8 CAN, Master/Slave, isolated D-Sub 9-pin: 1 x Profibus/Slave, isolated
Transfer rate:	10/100 Mbits

Mains supply unit

Input voltage:	100 V – 240 V, AC, 47 – 63 Hz (other voltage on request)
Output voltage:	5 V, 3,3 V, ±12 V (depending on the system)
Noise immunity:	Short circuit, overload, overvoltage
Connection:	Power cable, 2 m

CompactPCI backplane with
x CompactPCI slots

Number of the CompactPCI slots according to requirements	Reserved: 1 x CompactPCI controller board, further slots free for CompactPCI boards
Specification:	PCI specification PICMG rev. 2.1 / V I/O +5 V PICMG2.0 R3.0 CPCI Core Specification PICMG 2.6 Bridging Specification (according to requirements)

For MSX-Box-CPCI-xxxx

Extensive software support

Free development tools (GNU compiler, Cygwin, samples in source code ...),
Knoppix Live-DVD development environment.

Housing

Material:	Chromated aluminium
Heat dissipation:	Through programmable fan
Temperature range:	0 – 60 °C
Temperature monitoring:	Configuration at delivery: 5 °C to 45 °C, min. and max. value programmable through software. The temperature value can be monitored. Resolution: 1 °C
Front openings:	for x CompactPCI boards and 1 bracket
Housing dimensions: (L x H x W)	170 x 134 x 240 mm (without fan)
Weight:	approx. 2.5 kg
Status display:	6 LEDs, incl. 4 freely programmable

Optional accessories

Cable:	Ethernet patch cable 2 m, shielded, RJ45 connector (PC ↔ MSX-Box-CPCI)
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Ordering information

MSX-Box-CPCI-xxxx: PAC system, incl. development tools (GNU compiler, Cygwin, source code samples, ...) and technical description, x CompactPCI slots (incl. 1 slot reserved for the controller board; x-1 free slot)

MSX-256MB: Memory extension up to 256 MB

MSX-Basis: Basic equipment for the options **MSX-CAN**, **MSX-Profibus**, **MSX RTSync**

MSX-CAN-x: 1/2/4/8 x CAN bus, master/slave, optically isolated, incl. FB-CPCI-CAN

MSX-Profibus: 1 x Profibus, slave

FB-Profibus: FB-CPCI-Profi (please order separately)

MSX-RTSYNC: for the synchronisation of several MSX-Boxes (with time stamp), incl. FB-CPCI-RTSync

On request: further housing dimensions