## **Processor modules**



## **Processor modules MX200 series**

The processor modules of the MX200 series are Module based on PC technology for the M1 controller system. Depending on the type, the modules are equipped with a power supply and an integrated CAN master, and have 100 Mbit Ethernet ports that allow the simple integration of the controller in physically separated networks. The processor module with integrated floating point unit (FPU) is suitable for control applications. The MX200 modules are equipped with non-volatile RAM which provides maximum data security for more than 10 years without battery back-up.

Depending on type, the following features are:

- 2 serial interfaces
- 2 Ethernet-interfaces 10/100 Mbit/s with status displays
- 1 CAN interface
- 1 USB interface
- Status indicating LEDs for RUN, INIT and ERROR
- Mass storage (Compact Flash)
- RAM 256 MB DRAM
- Data memory 512 kB nvRAM
- Program memory of 16/32/64 MB FLASH on PC card and 16 MB internal FLASH, MX207 64 MB internal FLASH
- Integrated power supply

Item	Device	Item no.
MX207		00014445-00
MX213	CF512MB	00018594-00
MX213	CF4GB	00018594-10
MX213₩	CF512MB	00018597-00
MX213₩	CF4GB	00018597-10
MX220	CF512MB	00018593-00
MX220	CF4GB	00018593-10
MX220₩		00019210-00
MX220₩	CF512MB	00017689-00
MX220₩	CF4GB	00017689-10

## **Processor modules**

5 to 95 % with condensation

5 to 95 % with condensation

-40 to +85 °C

MX200 series	MX207	MX213/x	MX220/x	
Processor + memory				
CPU	x86	x86	x86	
Performance	66 MHz	133 MHz	200 MHz	
(Pentium equivalent)				
CF (mass storage)	- Without restriction			
nvRAM (data memory)	512 kB			
DRAM (working memory)	256 MB			
PC card (program memory)**	-	PCC201/xx with 16/32/64 MB FLASH		
FLASH (program memory)**	64 MB internal	16 MB internal		
Interfaces				
Serial	1x RS232/422/485	1x RS232 + 1x RS232/422/485		
Ethernet	1x 10/100 base-Tx	2x 10/100 base-Tx		
USB	1x USB 2.0			
CAN	1x 10 k to 1 Mbit/s			
Power supply for I/O				
Supply voltage	24 VDC (18 to 34 V)			
Nominal power	17 W for I/O			
Module	+5 V / 2000 mA; +15 V / 250 mA; -15 V / 200 mA			
Additional features				
Watchdog				
Synchronizing pulse also for E	thernet and fieldbuses SER	COS and CAN		
Real-time clock with battery				
Status indication via 3 LEDs				
CPU-ID selectable with rotary	hexadecimal switches			
Operating system VxWorks with Bachmann system extensions on internal FLASH				
Ambient conditions	Standard		oldClimate (叅)	
Operating temperature	-30 to +60 °C fanless			

Rel. humidity operation

Storage temperature

Rel. humidity storage

5 to 95 % without condensation

5 to 95 % without condensation



<sup>\*</sup> not included in delivery

<sup>\*\*\*</sup> depending on the configuration, a part of the program memory (approx. 4 MB) is reserved for the system software

## **Processor modules**

MX200 series	
Execution variants	
MX220	CPU module LX700 (433MHz); 256MB DRAM; 512kB nvRAM; 16MB file-flash; 2x Eth100; 1x CAN/CANopen; 1x RS232; 1x RS232/422/485; 1x USB2.0; integrated power supply 17W; PCC slot; CF slot
MX220₩	Like MX220; ColdClimate (拳)
MX213	CPU module LX700 (266MHz); 256MB DRAM; 512kB nvRAM; 16MB file-flash; 2x Eth100; 1x CAN/CANopen; 1x RS232; 1x RS232/422/485; 1x USB2.0; integrated power supply 17W; PCC slot; CF slot
MX213₩	Like MX213; ColdClimate (拳)
MX207	CPU module LX700 (266MHz); without Cache; 256MB DRAM; 512kB nvRAM; 64MB file-flash; 1x Eth100; 1x CAN/CANopen; 1x RS232/422/485; 1x USB2.0; integrated power supply 17W