

# Controller @C203-EN

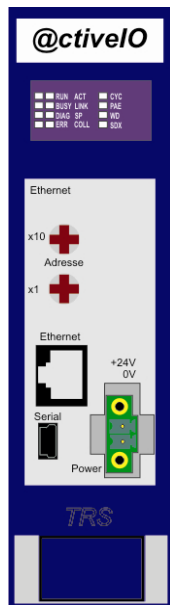
CPU



- 10/100Mbit Ethernet Interface
- TCP/IP, RS232 for programming and diagnostic
- Ethernet IO
- Fieldbus also available
- Program download by ftp
- Technology function: as cam controller @CAM available

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## Pinout



LED: *) see notes	
RUN	CPU: ok
DIAG	CPU: diagnostic LED
ERR	CPU: Error LED
SDX	CPU: system data transmission @BUS
ACT	Ethernet: Transmit
LINK	Ethernet: link ok
SP	Ethernet: Off: 10Mbit; on: 100Mbit
COLL	Ethernet: Collision
Rotary switch:	
Hi:	Reserved
Lo:	Reserved
Connectors	
Ethernet:	RJ45 10/100Mbit
Serial:	Mini USB RS232 Pin 1: TX Pin 2: RX Pin 3: GND
Power:	Phoenix Minicombicon Pin 1: 24 V Pin 2: 0 V

## Attributes

**10/100Mbit Ethernet Interface:**  
Additional Fieldbus-interface available.  
Serial interfaces: RS232, optional RS485\*.  
The @C203-EN contains a ARM7 core controller.

**IP-Address:**  
IP-Address would be given by @ctiveIO-Toolkit.  
Rotary switch for fieldbus-address.

**CPU specifications:**  
Flash memory :..... 4 MByte (16 Bit)  
SDRAM : ..... 8 MByte (32 Bit)  
NVRAM : ..... 32 kByte (8 Bit)  
CPU clock : ..... 44 MHz  
RTC:..... Real Time Clock  
Programmable digital Co-Processor..... XC2S50E  
SRAM (Co-Processor)..... 512 kByte (16 Bit)

**System specifications:**  
Hardware supervisor system :

- temperature control
- power control
- hardware watchdog
- power fail system
- supports UPS

\*) on request

## Electrical Data

Power supply external ..... 24V DC ± 20%, see notes  
 Operating Current ..... 90mA at +24V  
 Protection ..... 30V overvoltage, surge  
 Interfaces ..... RS232, 10/100Mbit Ethernet

## Controller @C203-EN

### System Information

System ID .....0x3272 (@CAM-C203-EN module)

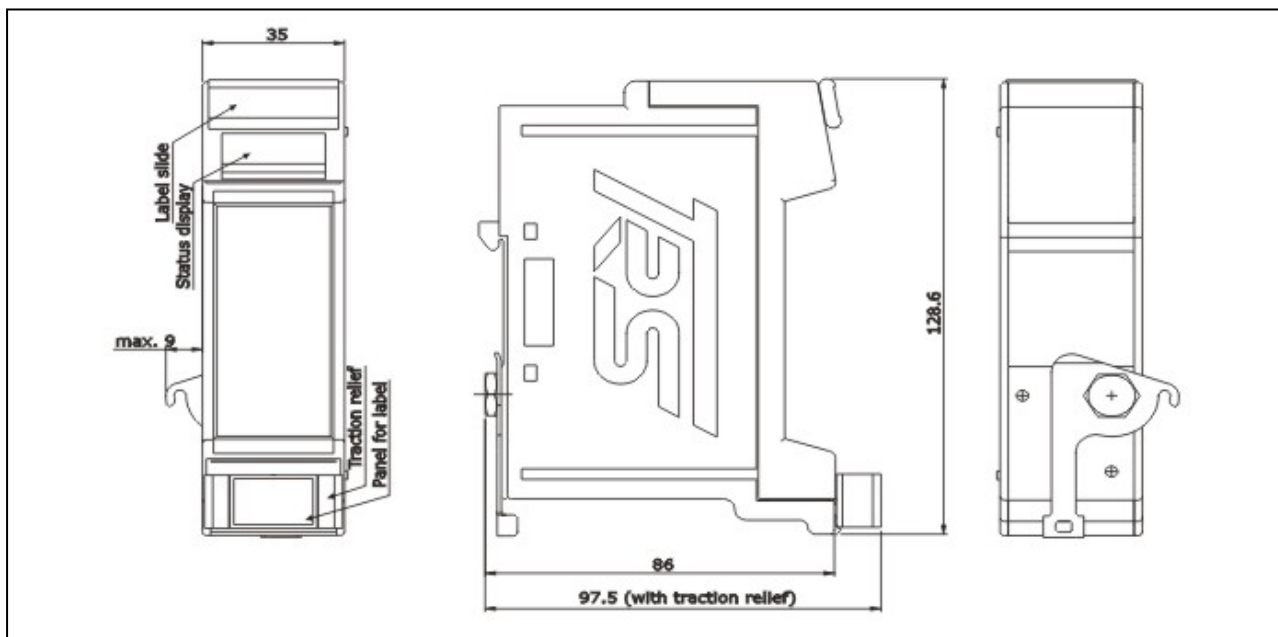
### Environmental Conditions

Electromagnetic compatibility (EMC) ..... EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)  
 Operating temperature [°C] ..... 0...+55  
 Storage temperature [°C] ..... -20...+70  
 Humidity (rel)..... 98 % (non condensing)  
 Protection class\* ..... IP20 (DIN 40 050)  
 \*The protection class is valid only with housing and connector installed

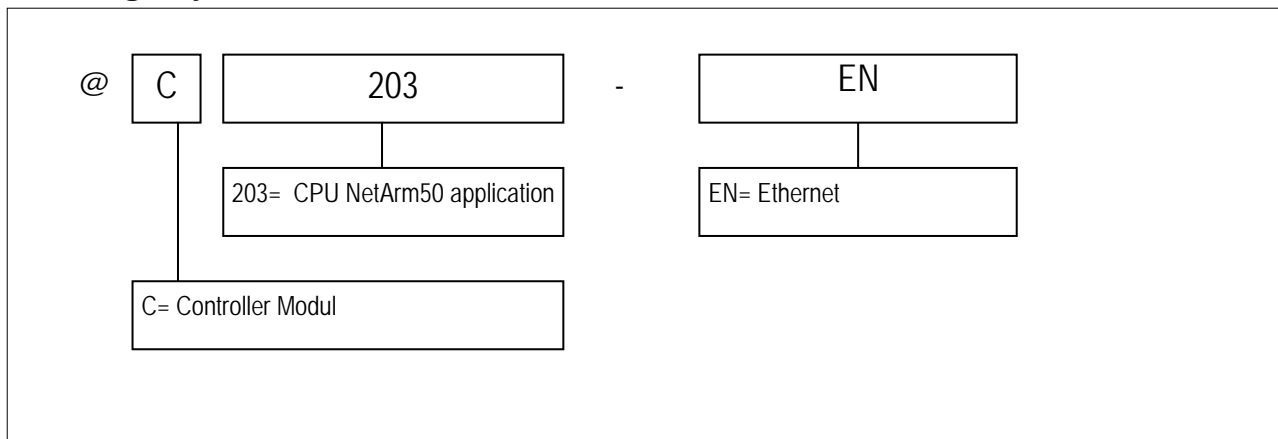
### Mechanical Data PCB

Weight..... approx. 0.05 kg including connector  
 Dimension ..... 105mm x 80mm x 12mm

### Drawing (effective if mounted in @M housing)



### Ordering Key



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### Controller @C203-EN

CPU

**notes:**

Description of the LEDs:

LED	Status	Description
RUN	ON	CPU is running
DIAG	ON	Diagnostic information available: Warning / Error
ERR	ON	Error on fieldbus, no diagnostic information available
	Flashing	Error (see diagnostic information)
SDX	ON	Data on @Bus
ACT		Datatransfer on network
LINK	ON	Network connected
SP	ON	Netspeed 100Mbit

**Special operating modes (DIAG and ERR LED):**

**ftp server active:** ..... DIAG and ERR in alternating blink mode

**System init in progress:**..... DIAG and ERR in concurrent blink mode

**Caution:**

**If using interface moduls of type @5xxx power 0V of the controller has to be directly connected with power 0V of the @5xxx-modul and power 0V of the interface partner of the @5xxx-modul.**

**Revision change**

version	description	date (m/y)
00	serie 0	08/04

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