

## General Information for emPC-M Series



### Features

#### Processor

- Intel Celeron M with 1.0 GHz
- Intel Core2Duo with 1.5 GHz
- Intel Atom N270 with 1.6 GHz

#### System

- Compact industrial computing system
- Intel 915 / 945 GME chipset
- Power supply range: 14 ~ 32 V DC with connector for external power button
- Real time clock with battery backup
- System is available with 0 or 2 PCI slots

#### Connectors/Ports

- 2 x 10/100 Mbit/s Ethernet, RJ45 connectors
- 2 x USB (V 2.0), host connection,
- 1 x RS232 serial port, 2 x isolated CAN/CANopen port (SJA1000 CAN controller) with status LEDs
- VGA connector for resolutions up to 1280 x 1024
- 1 x PS/2 connector for keyboard/mouse, Reset button
- Type I/II Compact Flash socket (using True IDE mode), removable
- Two status LEDs for CompactFlash and internal hard disk/ CompactFlash
- Proprietary slot for special purpose I/O modules (e.g. Audio In/Out, digital I/O...)
- Lockable power connector

#### Physical

- Ambient operating temperature range from 0 °C...50 °C
- Dimensions excl. wall mounting pads (w x h x d):  
0 PCI slot version: 96 x 160 x 230 mm  
2 PCI slot version: 147 x 160 x 230 mm

#### Options

- CoDeSys IEC61131-3 environment
- Cover Board w/o Add-On Module
- AddOn-Modules for  
AudioLine In/Out (with/without 2W amplifier)  
AudioLine In/Out and NVRAM  
Digital I/O (4 x In / 4 x Out or 8 x In)
- 4 x USB (V 2.0), host connection
- One internal CompactFlash socket

#### Hard Disk Mounting Kits

- Kit for 2.5" HDD, IDE
- Kit for 2.5" HDD, S-ATA

#### Active Cooling Kits

- Active Cooler (0 PCI-System)
- Active Cooler (2 PCI-System)

#### CompactFlash Mediums (Industrial Grade)

- 1 GB CompactFlash
- 2 GB CompactFlash
- 4 GB CompactFlash
- 8 GB CompactFlash
- 16 GB CompactFlash

#### Supported Operating Systems

- Windows XP, XPembedded, Windows 7  
Windows CE 5.0/6.0, Linux, RTAI, QNX

### Contact Information

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|                             | emPC-MN270                                                              | emPC-MCM-1000   | emPC-MC2D       |
|-----------------------------|-------------------------------------------------------------------------|-----------------|-----------------|
| Processor                   | Intel Atom N270                                                         | Celeron M       | Core2Duo        |
| GHz                         | 1,6 GHz                                                                 | 1,0 GHz         | 2 x 1,5 GHz     |
| RAM (standard 1GB)          | up to 2 GB DDR2                                                         | up to 2 GB DDR2 | up to 2 GB DDR2 |
| L2 Cache                    | 512 kB                                                                  | 512 kB          | 4 MB            |
| Chipset                     | Intel 945GME                                                            | Intel 915GME    | Intel 945GME    |
| PCI slots                   | 0/2*                                                                    |                 |                 |
|                             | 5 V/3.3 V*                                                              |                 |                 |
| Hard Disk (internal, 2,5")  | IDE* / S-ATA*                                                           |                 |                 |
| CompactFlash (external)     | yes                                                                     |                 |                 |
| CompactFlash (internal)     | on request*                                                             |                 |                 |
| CAN/CANopen                 | 2/1*                                                                    | 2/1*            | 2/1*            |
| 10/100 MBits Ethernet       | 2                                                                       | 2               | 2               |
| USB v2.0                    | 2/4*                                                                    | 2/4*            | 2/4*            |
| PS/2                        | 1                                                                       | 1               | 1               |
| RS232                       | 1/2*                                                                    | 1/2*            | 1/2*            |
| RS485                       | on request*                                                             |                 |                 |
| AudioLine, In/Out           | on request*                                                             |                 |                 |
| AudioLine, add. 2W amp.     | on request*                                                             |                 |                 |
| NVRAM                       | on request*                                                             |                 |                 |
| Digital I/O (4x In; 4x Out) | on request*                                                             |                 |                 |
| Digital I/O ( 8x In)        | on request*                                                             |                 |                 |
| Custom Specific Design      | on request*                                                             |                 |                 |
| Power Supply                | 14 ~ 32 V DC                                                            |                 |                 |
| Power Consumption           | TBD                                                                     | TBD             | TBD             |
| Dimensions (w/o PCI)        | 96 x 160 x 230                                                          | 96 x 160 x 230  | 96 x 160 x 230  |
| Dimensions (2 PCI)          | 147 x 160 x 230                                                         | 147 x 160 x 230 | 147 x 160 x 230 |
| Weight (w/o PCI/approx.)    | 3,5 kg                                                                  | 3,5 kg          | 3,5 kg          |
| Operating Systems           | Windows XP / XPembedded / Windows 7 / Windows CE 5.0/6.0 / Linux / RTAI |                 |                 |
| CoDeSys Enviroment          | on request*                                                             |                 |                 |

\* These options are available on request. Please contact your regional sales office for further information.