

# C-IPC INTEL Celeron M

## Compact Industrie PC



Symbol photo

The C-IPC is a C-DIAS industry PC with an INTEL Celeron M processor. A 7-segment display and three Status-LEDs provide information on the current status of the CPU. Two compact Flash cards can be used as program memory. The C-IPC also has an VGA interface for a display and an USB1.1 interface. In addition, an expansion card with further interface connections is available.

### Performance Data

|   |   |
|---|---|
| Processor                                   | INTEL Celeron M   |
| Internal program memory (Compact Flash)     | 2x Compact Flash Type I or II   |
| Internal program memory (SRAM)              | 256 Kbytes (battery powered)  |
| Internal program memory (SDRAM)             | 1-Gbyte DDR2 RAM  |
| Interfaces                                  | <ul style="list-style-type: none"> <li>1x Ethernet 10/100 Mbit</li> <li>1x RS232 – COM1</li> <li>1x RS232/ RS485/ RS422 – COM2</li> <li>1x DIAS intelligent (Weidmüller plug and 14-Pin ribbon cable)</li> <li>1x CAN for a PLC</li> <li>1x CAN for a terminal</li> <li>1x VGA</li> <li>1x S-DVI interface for a Terminal (TFT display, USB, CAN keyboard)</li> <li>Resolution 1024 x 768 Pixel</li> <li>1x USV</li> <li>1x USB1.1</li> </ul> |
| Optional interfaces on the expansion cards: | <ul style="list-style-type: none"> <li>1x VARAN bus, 1x Ethernet, 1x TTY 20 mA interface (VM 053: 01-460-053)</li> <li>3x VARAN Manager (VM 052: 01-460-052)</li> <li>2x VARAN manager, 1x Ethernet (VM 052-3: 01-460-052-3)</li> <li>2x VARAN Manager (VM 051: 01-460-051)</li> <li>2x VARAN manager, 1x VARAN Client (VMC 052: 01-465-052)</li> <li>3x VARAN for VARAN Analyzer (VA 062: 01-460-062)</li> </ul>                             |

### Performance Data

|                 |                 |
|-----------------|-----------------|
| Data buffer     | lithium battery |
| Status display  | yes             |
| Status LEDs     | yes             |
| Real-time clock | yes             |

### Electrical Requirements

|                                       |   |
|---------------------------------------|---|
| Supply voltage                        | 24 - 30 V DC                                  |
| Supply voltage<br>Current consumption | up to 5 A (depending on the external devices) |
| Starting current at +24 V             | for a very short time (~5 ms) : 35 A          |
| Available current for DIAS (+5 V)     | maximum 1 A                                   |
| Available current for C-DIAS (+5 V)   | maximum 1.2 A                                 |

### Standard Configuration

|                  |                |                           |
|------------------|----------------|---------------------------|
| Ethernet         | IP 10.10.150.1 | Subnet-Mask: 255.0.0.0    |
| CAN bus PLC      | station: 00    | baud rate: 01 = 615 kBaud |
| CAN bus Terminal | station: 00    | baud rate: 01 = 615 kBaud |
| COM 1 (RS232)    | 57600 Baud     |                           |
| COM 2 (RS232)    | 57600 Baud     |                           |

### Environmental Conditions

|                          |   |                      |
|--------------------------|---|----------------------|
| Storage temperature      | -20 – +85 °C                                    |                      |
| Operating temperature    | +5 - +50 °C                                     |                      |
| Max. Process temperature | +125 °C (automatic cut-off)                     |                      |
| Humidity                 | 0 - 95 %, non-condensing                        |                      |
| EMC stability            | According to EN 50082 section 2 (industry area) |                      |
| Shock resistance         | EN 60068-2-27                                   | 150 m/s <sup>2</sup> |
| Protection Type          | EN 60529  | IP 20                |

### Mechanical Dimensions

|       |  |
|-------|--|
| C-IPC | 130,5 mm x 145,4 mm x 121,2 mm (W x H x D) |
|-------|--|

### Article Number and Miscellaneous

|                                   |   |            |
|-----------------------------------|---|------------|
| Article number                    | C-IPC 152 1-Gbyte Celeron M440<br>1-Gbyte DDR2 RAM and 256 MB Compact Flash | 01-450-152 |
| Hardware version                  | 1.x   |            |
| Module identification on DIAS bus | no  |            |
| Project back-up                   | internally on Compact Flash   |            |