

# INTEL ATOM

## Compact Industrie PC



Symbol photo

The C-IPC is a C-DIAS industry PC with an INTEL ATOM 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 USB V1.1 interface. In addition, an expansion card with further interface connections is available.

### Performance Data

Processor	INTEL ATOM N270
Internal program memory (Compact Flash)	2x Compact Flash Type I or II
Internal program memory (SRAM)	256 kbytes (battery powered)
Internal program memory (SDRAM)	256-Mbyte DDR2-RAM
Interfaces	1x Ethernet 10/100 Mbit 1x RS232 – COM1 1x RS232/ RS485/ RS422 – COM2 1x DIAS intelligent (Weidmüller plug and 14-Pin ribbon cable) 1x CAN for a PLC 1x CAN for a terminal 1x VGA 1x S-DVI interface for a terminal (TFT display, USB, CAN keyboard) 1x USV 1x USB V1.1
Optional interfaces on the expansion cards:	1x VARAN bus, 1x Ethernet, 1x TTY 20 mA interface (VM 053: 01-460-053) 3x VARAN Manager (VM 052: 01-460-052) 2x VARAN manager, 1x Ethernet (VM 052-3: 01-460-052-3) 2x VARAN Manager (VM 051: 01-460-051) 2x VARAN manager, 1x VARAN Client (VMC 052: 01-465-052) 3x VARAN for VARAN Analyzer (VA 062: 01-460-062)

### Performance Data

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

### Electrical Requirements

Supply voltage	+18 V to +30 V DC
Supply voltage (UL)	18 – 30 V DC (Class 2)
Supply voltage +24 V Current consumption	550 mA (with no external devices connected)
Supply voltage current consumption (UL)	Maximum 3,2 A
Supply voltage Current consumption	up to 5 A (depending on the external devices)
Starting current at +24 V	27 A for about 400 µs
Available current for DIAS (+5 V)	maximum 1 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	

### Mechanical Dimensions

C-IPC	145.4 mm x 121.1 mm x 130.5 mm (W x H x D)
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### Article Number and Miscellaneous

Article number	C-IPC 161 256 MB ATOM 256 MB DDR2-RAM and 128 MB Compact Flash 01-450-161
Hardware version	1.x
Module identification on DIAS bus	no
Standard	UL508 (E247993)
Project back-up	internally on Compact Flash

## Environmental Conditions

Storage temperature	-20 - +85 °C	
Maximum process temperature	+100 °C (automatic cut-off)	
Operating temperature	+5 - +50 °C	
Humidity	0 - 95 %, non-condensing	
EMC stability	in accordance with EN 61000-6-2 (industrial area)	
Shock resistance	EN 60068-2-27	150 m/s <sup>2</sup>
Protection type	EN 60529	IP20
Protection Type (UL)	open type device	
Pollution degree	2	