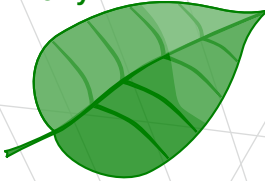


**DIMM-CPU09 + carrier board**  
onboard computer for mobile machines  
control and data collection for production equipment

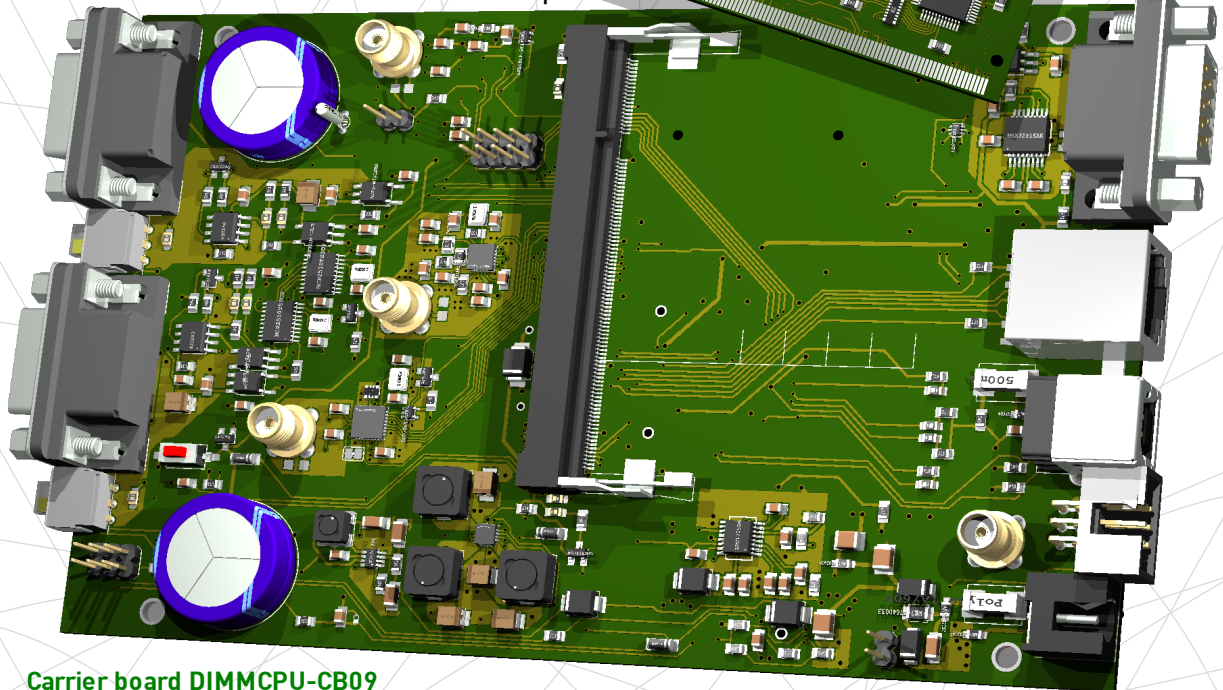
## Key features

Power supply from 12V and 24V vehicle power  
Carrier board 160x100mm [6.3"x3.93"]  
CPU-board "computing stamp" 68x50mm [2.7"x2"]  
powerful linux operating system  
driver support for all attached hardware components  
optimal integration into mobile machinery  
battery operation supported by intelligent board control  
2 separate CAN data busses available  
2,4GHz-radio - free of charge  
kompakt and mechanical ruggedized  
integration and customization support available

**Energy consumption**  
~2W only



**Signals at DIMM connector**  
3xUART, 2xSPI, TWI/I2C  
LCD-display  
SD-card  
LAN  
Audio  
USB  
GPIOs  
4 external interrupts



### Carrier board DIMMCPU-CB09

2xCAN (MCP2510), isolated  
LAN 10/100  
RS232, isolated  
USB client  
GSM/GPRS  
GPS (Sirf, NMEA)  
RTC (I2C)  
2x2,4GHz radio (AT86RF231, nRF24L01)  
SD card socket  
DIMM socket  
board control  
wide range DC power supply (8-38V)  
externally switched sleep mode, isolated  
capacitor buffer (short term power storage)

**CPU-board DIMM-CPU09**  
**"computing stamp"**  
AVR32AP7000  
128MB SDRAM  
8MB Flash  
LAN (DP83848I)  
DIMM form factor



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## Application example

### Elektronic delivery, quantity and quality billing for agricultural processes

In the LASEKO project all harvest processing chain involved machinery and facilities are equipped with the hardware described above. Harvest, machinery and positioning data is collected automatically and distributed wirelessly to the participating mobile and stationary members.

Delivery billing as well as tracking and tracing information is generated fully automatically.

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