

# The PBMaster Project

## An Open Implementation of Profibus

### PBMaster Project

- High-speed software implementation
- No Profibus ASIC
- Based on UART and RS-485
- Modular, multi-platform
- Good performance

### Supported Hardware

- UART PCI card with OX16C95x chip
- Simple RS-232/RS-485 converter
- ARM7 based LPC 21xx
- ARM7 based Atmel AT91SAM7

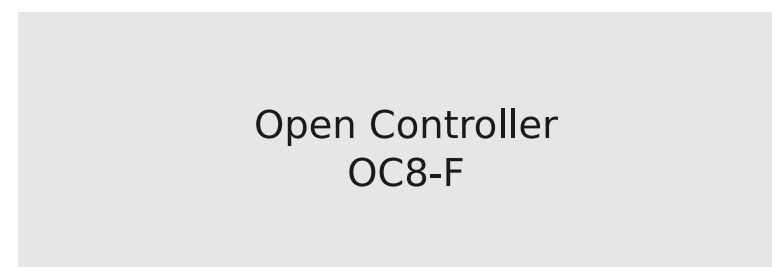
### Supported Modes

- Profibus FDL Master, FDL Slave (exper.)
- Profibus DP Layer (under development)
- Profibus FDL/DP Analyzer
- UART Bit/Byte Analyzer

### Supported Platforms

- x86: Linux, FreeBSD, NetBSD
- ARM9: Linux (under development)
- ARM7: FreeRTOS (under development)
- ARM7: Sys-less

OC8-F



Master



Open Controller

<http://www.opencontroller.com>

### OC8-N

Atmel AT91 ARM7  
55 Mhz, 64 kB SRAM, 2 MB Flash  
CAN, RS-232/422/485 (up-to 12 Mbps),  
ADC, DAC, I2C, SPI, SSC, USB 2.0 host,  
Ethernet, JTAG, etc.

OS: FreeRTOS

### OC8-S and OC8-V

Atmel AT91 ARM9  
400 Mhz, 64 MB SD-RAM, 256 MB NAND Flash  
RS-232/422/485, ADC, DAC, I2C, SPI, SSC,  
USB 2.0 host/device, Ethernet, JTAG, etc.

OC8-V: CAN, LCD Controller, Image Sensor

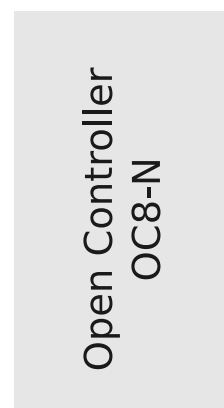
OS: Linux 2.6.31

### OC8-F

Industrial version

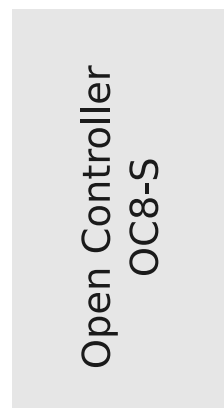
Plug-In modules for OC8-F: OC8-N and OC8-S

OC8-N



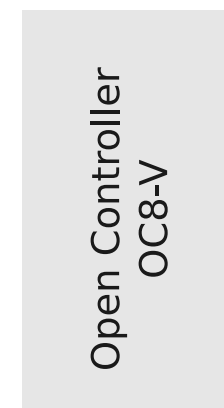
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OC8-S



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OC8-V



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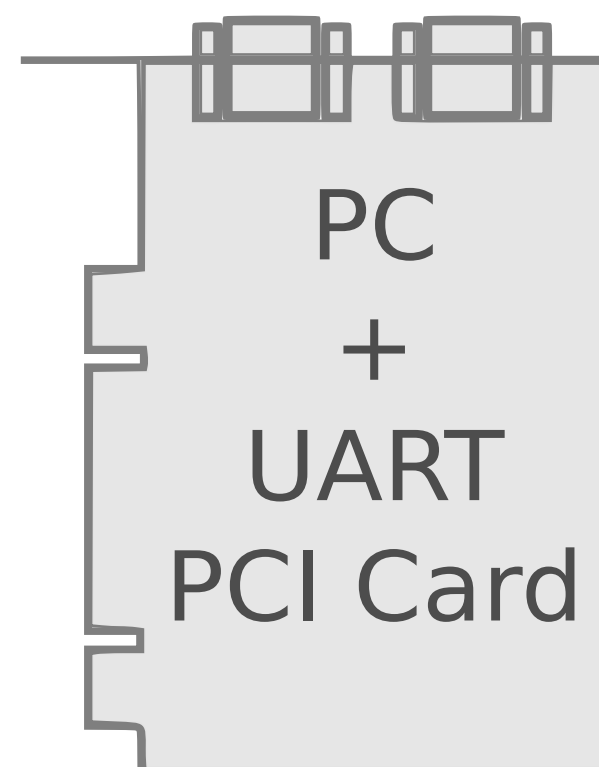
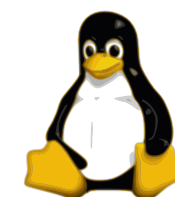
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<http://dce.felk.cvut.cz> <http://www.pbmaster.org>

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Slave



Slave

Slave

Master

