

OEM IP Gateway

IP Gateways connect local fieldbus systems to IP networks. An application examples is a home gateway, connecting a local fieldbus like EIB, Konnex PowerLine PL132, CAN or LON to the internet.

Our OEM IP Gateway is a cost-optimized solution for customized gateway products. It is based on MOTOROLA'S 32-Bit COLDFIRE RISC-Controller, a circuit with a very good price/performance ratio. Several on-chip peripheral components facilitate highly integrated and extreme compact systems with low power consumption.



Using Embedded Linux and/or JControl/OS as operating system, very robust system software becomes possible. Application software may be developed in „C“ or JAVA. Free software development tools are available to support the software development, including a Project Manager, Picture Editor, Font Editor or Melody Editor. Our configurable Simulator allows to examine the usability and system behaviour of the device before the hardware is finished.

The customization of the product is done by a XML configuration file, specifying the bus functionalities and their mapping to the IP network and/or HTML visualization. The JControl/WebServer is freely configurable to generate HTML pages just-in-time. Our XML2CLASS compiler translates the configuration file to an executable format, downloadable to the gateway.

The IP network may be connected by the 10/100 BaseT ethernet interface or by a modem.

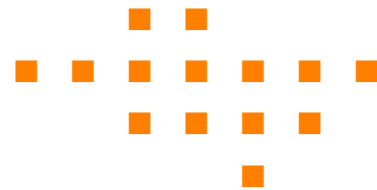
Technical Data

Hardware

- Motorola ColdFIRE family (low-cost 32-Bit controllers, e.g. MCF5206e, MCF5272)
- 2MB - 8MB (S)DRAM
- 1MB - 4MB FLASH
- Optional 10/100 BaseT ethernet interface
- RS232
- CAN, EIB, PL132, LON
- BDM/JTAG (in-circuit flash programming, in circuit testing etc.)
- I²C

Software

- EmbeddedLinux, JControl/OS
- Connectivity
 - CAN
 - EIB (FT1.2)
 - Konnex PL132
 - LON, ...
- JAVA programming support
- Configuration by XML
- Bootloader with Power-On-Self-Test (POST)
- WebServer with JAVA-interface for automatic generation of HTML pages



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