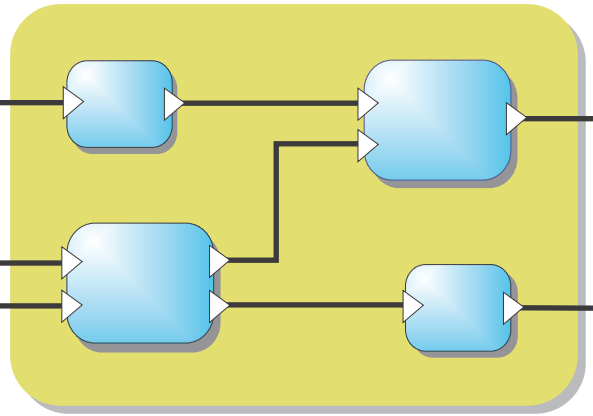
LON® without Neuron®

Your Benefits

- compatible with ANSI/EIA/CEA-709
- easily portable C source code
- comprehensive C and Java™ API
- short development cycles
- runs "standalone" or with operating system, e.g.
  - Embedded Linux
  - Java™-based Operating System JControl®
- various MAC implementations available
  - VHDL IP core for CPLD or ASIC integration
  - ColdFire® eTPU function
- parallel execution of transactions
- multiple applications using multiple node instances
- synchronous and asynchronous messaging
- address table with up to 65536 entries per node
- up to 16384 network variables per node



Modern ANSI/EIA/CEA-709 networking requires powerful and flexible solutions.

DOMOLOGIC delivers.

Most ANSI/EIA/CEA-709 networks are built upon the Neuron® chip. This chip contains three 8-bit controllers responsible for the network communication and for running user programs.

With the increasing demands of today's network applications, alternatives become more essential. The penetration of 32 bit platforms into the embedded systems market enables the realization of powerful communication nodes at very low cost.

DOMOLOGIC offers soft implementations of the ANSI/EIA/CEA-709 protocol, opening new perspectives for your next product development. With the use of state-of-the-art hardware you will overcome the restrictions of past 8 bit solutions. DOMOLOGIC's innovative technology portfolio covers the whole range from the MAC layer up to sophisticated application layer APIs.

DOMOLOGIC GmbH
Rebenring 33
D-38106 Braunschweig
Germany

Phone: +49 (0) 531-3804-340
Fax: +49 (0) 531-3804-342

E-Mail: info@domologic.com
Internet: www.domologic.com

Local Operation Network®

domo logic

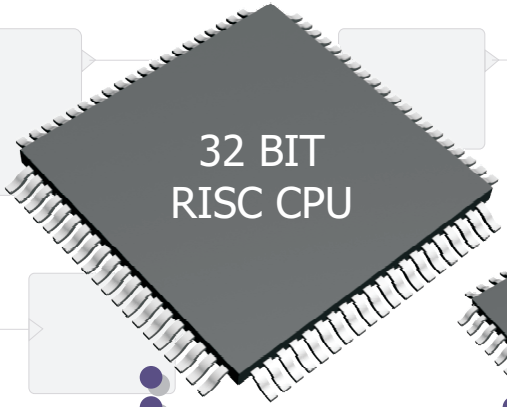
Freescale™ ColdFire® MCF523x

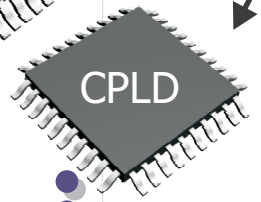
- single chip solution based on the integrated eTPU (enhanced Time Processing Unit)
- supports two transceivers
- connects directly to LON® transceivers
- powerful 32 Bit CPU for complex applications
- software stack runs standalone or with operating system
- programmable in C and Java™

LON® Transceiver

- FFT10A
- LPT10A
- PLT20
- RS485

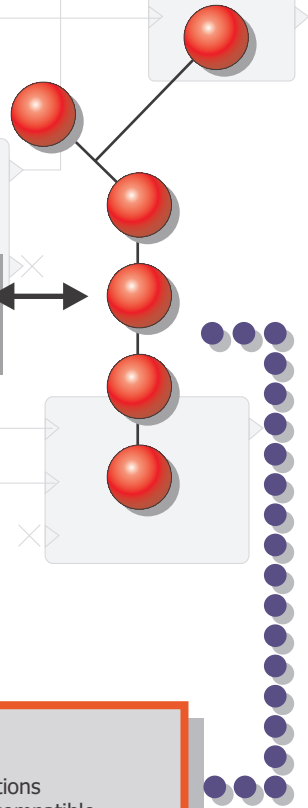
LON® Transceiver





CPLD

- CPLD interfaces with LON® transceiver
- IP core available as portable VHDL code
- depending on hardware abilities, one or more transceivers are supported
- software stack runs standalone or with operating system
- supported CPUs include ARM®, ColdFire®, PPC
- programmable in C and Java™



LON® Network

- Neuron® based solutions
- ANSI/EIA/CEA-709 compatible devices