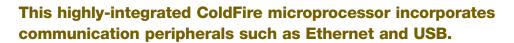
Motorola's ColdFire® MCF5272 Integrated Microprocessor

With the addition of a 10/100 Ethernet controller and a USB module, the MCF5272 integrated communications microprocessor takes the ColdFire family to a higher level of integration. Not only does this processor offer a new set of communication peripherals, but it

Integrated Peripherals

The MCF5272 microprocessor features exciting new peripherals:

 Fast Ethernet Media Access Controller (MAC), supporting 100 Mbps MII, 10 Mbps MII, and 10 Mbps 7-wire physical interfaces



features popular general-purpose peripherals included on previous ColdFire standard products. The MCF5272's expanded peripheral set and attractive pricing make this most highly-integrated ColdFire microprocessor a perfect fit for a broad range of embedded applications such as Internet appliance, LAN telephony, low-end networking control, industrial control, imaging, and storage.

High System Performance

The MCF5272 microprocessor is based on a Version 2 (V2) ColdFire core. With 63 Dhrystone 2.1 MIPS at 66 MHz, it achieves the highest V2 performance yet. As with all ColdFire devices, the architecture offers excellent code density, while achieving outstanding levels of system performance. The MCF5272 product is a great complement to the 68302 family because it shares the 68K programming model and provides a significantly higher performance alternative where a communication peripheral set is required.

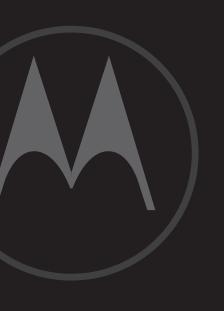
- USB 1.1 compliant device controller operating with either an internal or external transceiver
- Time Division Multiplex (TDM)
 controller allowing the product to
 connect at a physical level with
 external codecs, ISDN transceivers,
 and other peripheral devices which
 use either the General Circuit Interface
 (GCI) or Interchip Digital Link (IDL)
 serial interface protocols
- Multi-channel HDLC software module
- QSPI module providing a serial peripheral interface with queued transfer capability
- Pulse Width Modulation (PWM) units
 for use in control applications.
 The MCF5272 device also provides
 peripherals common to many embedded
 applications such as SDRAM controller,
 DMA, timers, UARTs, chip selects,
 general purpose I/O, on-chip memories,
 and the world-class ColdFire debug
 module, all integrated in a cost-effective
 manner to reduce system cost and speed
 system design.











Contact Information:

Motorola offers user's manuals, product briefs and application notes for all of its ColdFire microprocessors. In addition, local support is also provided for these products. This information can be found at http://www.motorola.com/ColdFire

For all other inquiries about Motorola products, please contact the Motorola Customer Response Center at: 800-521-6274 or http://www.motorola.com/semiconductors

Fast Time to Market

The MCF5272 microprocessor builds on and extends the successful 68K family by providing a compatible environment for 68K and ColdFire microprocessor customers in which world-class third party development tools, software and programmer's familiarity are quickly leveraged. In fact, customers moving from 68K to ColdFire microprocessors can use a code translation tool free of charge, subject to a licensing agreement, to facilitate modifying and reusing 68K assembly. By delivering on the development roadmap for the 100% synthesizable ColdFire family, Motorola provides room to grow and powerful new capabilities for designers eager to create new classes of electronic products while leveraging previous investments.

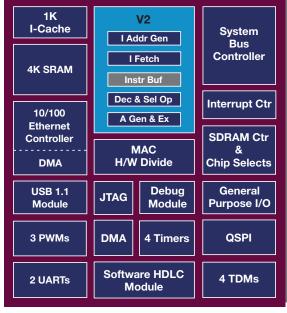
Features

- V2 ColdFire processor
- 1 Kbyte instruction cache
- 4 Kbyte SRAM
- Multiply-Accumulate Unit (MAC)
- Hardware integer divide unit
- Industry-leading debug module offering both background and real time capabilities
- Integrated processor
 - IEEE 802.3 compliant 10/100
 Fast Ethernet Controller (FEC),
 with dedicated DMA
 - USB 1.1 device controller and transceiver
 - 4 2B+D TDM ports

- HDLC software module
- QSPI
- SDRAM controller
- 3 PWM outputs
- 2 UARTs
- 1-channel DMA
- 8 chip selects
- 16-bit general-purpose I/Os
- 4 16-bit timers
- SW watchdog timer
- Doze mode

Product Specifications

- 63 Dhrystone 2.1 MIPS @ 66 MHz
- o°-70° C operating temperature
- Implemented in 0.35µm TLM
- 3.3-V supply, 5-V I/O tolerant
- 196-pin MAPBGA package





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