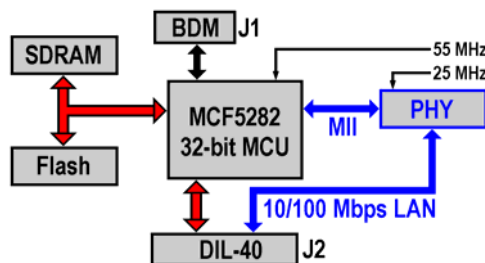Product Information

DIL/NetPC DNP/5282

Tiny Embedded Linux Module with CAN-Interface

Description

The DIL/NetPC DNP/5282 provides a very compact ColdFire-based low power embedded controller (Motorola/Freescale 32-bit MCF5282) with pre-installed Linux or eCos O/S, full-featured TCP/IP stack, and Web server for Ethernet-based embedded networking applications.

Block diagram DNP/5282: The DNP/5282 comes with one 10/100 Ethernet LAN interface an on-board PHY chip. One of the main application areas of the DNP/5282 is e.g. Ethernet-to-CAN gateways. A rich set of parallel and serial interface features supports the connection to other external components.

The DNP/5282 offers the footprint of a standard 40-pin DIL socket with 2.54mm centers and all the hardware and software features necessary to add high-speed networking capabilities to any product design. The DNP/5282 is developed specifically for products that need to be connected to 10 or 100 Mbps Ethernet-based TCP/IP networks with minimum development costs.

The DNP/5282 is build around Motorola's (Freescale) 32-bit MCF5282 microcontroller unit (MCU) running with 66 MHz. The external main components around the ColdFire are one Flash memory chip with 8 Mbytes and one 16 MByte SDRAM memory chip.

Technical Data

Basic
CPU	32-bit Motorola Coldfire 66 MHz
RAM	16 MByte SDRAM
Flash	8 MByte

I/O Functions
Parallel (PIO)	20-bit GPIO
Serial I/Os	1 x SPI, 1x I2C, 1x CAN, 2 x UARTs

Special Functions
Watchdogs	1 x timer watchdog, 1 x power supervisor
Chip Select Outputs	2 x QSPI chip select outputs for external SPI slave devices

Other
Mechanical	40-pin DIL form factor
Size	23mm x 55mm
Power	3.3 VDC
Current	350 mA typical

Delivery
DNP/5282L	DNP/5282 with pre-installed embedded Linux O/S
DNP/5282E	DNP/5282 with pre-installed eCos O/S

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