

Modul RCM5700 je cenovo dostupný vývojový kit, s pomocou ktorého jednoducho doplníte 10/100Base-T ethernet konektivitu, do Vašej aplikácie. Tento vývojový kit obsahuje MCU Rabbit® 5000, 1MB FLASH a low-power PHY ICS1893.



Vlastnosti

- Microprocessor: Rabbit® 5000 @ 50 MHz
- EMI Reduction: Spectrum spreader for reduced EMI (radiated emissions)
- Ethernet Port: 10/100Base-T
- Flash Memory: 1 MB
- SRAM: 128 KB (Rabbit® 5000 on-chip)
- Backup Battery: Connection for user-supplied backup battery (to support RTC)
- General-Purpose I/O: Up to 35 parallel digital I/O lines configurable with 4 layers of alternate functions
- Additional Inputs: Reset in
- Additional Outputs: Status, reset out
- External I/O Bus: Can be configured for 8 data lines and 6 address lines (shared with parallel I/O lines), plus I/O read/write
- Serial Ports: 6 high-speed, CMOS-compatible ports:
 - All 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC
 - 1 asynchronous clocked serial port shared with programming port
- Serial Rate: Maximum asynchronous baud rate = CLK/8
- Slave Interface: Slave port allows the RCM5700 to be used as an intelligent peripheral device slaved to a master processor
- Real-Time Clock: Yes
- Timers: Ten 8-bit timers (6 cascadable from the first), one 10-bit timer with 2 match registers, and one 16-bit timer with 4 outputs and 8 set/reset registers

- Watchdog/Supervisor: Yes
- Pulse-Width Modulators: 4 channels synchronized PWM with 10-bit counter 4 channels variable-phase or synchronized PWM with 16-bit counter
- Input Capture: 2-channel input capture can be used to time input signals from various port pins
- Quadrature Decoder: 2-channel quadrature decoder accepts inputs from external incremental encoder modules
- Power: 3.15 - 3.45V DC
 - 70mA @ 3.3V (without Ethernet)
 - 200mA @ 3.3V (with Ethernet)
- Operating Temperature: -40° C to +85° C
- Humidity: 5% to 95%, noncondensing
- Connectors: Edge connectors for interface with 52-pin mini PCI Express socket
- Board Size: 30 mm × 51 mm × 3 mm

Verzie RCM5700

Kit sa dodáva v dvoch prevedeniach (a tomu odpovedajúcich cenách):

- Standard Development Kit (101-1274) obsahuje:
 - Interface Board with standoffs/connectors.
 - Prototyping Board with standoffs/connectors.
 - USB cable to program RCM5700 via Interface Board.
 - Dynamic C CD-ROM, including product documentation on disk.
 - Getting Started instructions.
 - Registration card.
- Deluxe Development Kit (101-1275) obsahuje:
 - Standard Development Kit (101-1274)
 - Universal AC adapter, 5 V DC, 2 A (includes Canada/Japan/U.S., Australia/N.Z., U.K., and European style plugs). Development Kits sold in North America may contain an AC adapter with only a North American style plug.
 - Digital I/O and Serial Communication accessory boards for use with certain sample programs.
 - CAT 5/6 Ethernet cable and DB9 to 10-pin header serial cable.
 - Rabbit 5000 Processor Easy Reference poster.

*verzia RCM5710 obsahuje navyac aj RJ45 konektor.

Software

Dynamic C® Software (súčasťou dodávky) je IDE s C kompilátorom, určené na vývoj a ladenie aplikácií s MCU Rabbit.

Na CD nájdete aj real-time operačný systém μ C/OS-II, point-to-point protocol (PPP), FAT file system, RabbitWeb a ďalšie knižnice. Dokúpiť si môžete ešte "[Rabbit Embedded Security Pack](#)" obsahujúci Secure Sockets Layer (SSL) a knižnicu Advanced Encryption Standard (AES).

Odkazy

- [Schéma "kit RCM5700"](#)
- [Schéma "Interface Board"](#)
- [Schéma "Prototyping board"](#)
- [Schéma "I/O Accessory board"](#)
- [Schéma "Serial communication accessory board"](#)
- [Dynamic C® for Rabbit 4000 and 5000](#)
- [MiniCore RCM5700 Data Sheet](#)
- [MiniCore RCM5700 User's Manual](#)
- [Dynamic C 10 User's Manual](#)
- [RCM5700 Homepage](#)

Cena

Cena podľa výrobcu Rabbit je:

99,- USD za Standard Development Kit (101-1274) - modul MiniCore™ RCM5700

199,- USD za Deluxe Development Kit (101-1275) - modul MiniCore™ RCM5700

Distribúcia

[vid'. Adresár](#) *skúšobne, iba pre členov