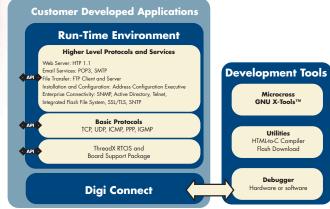


ConnectCore[™] 9C

Powerful ARM9 Core Module

Highly-integrated, compact DIMM form factor module based on the 155 MHz NS9360 ARM9 processor provides core processing functionality with integrated network connectivity.



Features

- Powerful 32-bit NS9360 processor
 ARM926EJ-S RISC core with DSP/Jazelle enhancements
- · Compact SO-DIMM design
- Low power consumption
- · Sleep mode power management
- · Industrial operating temperature
- 4 MB Flash, 16 MB RAM integrated
- 10/100 Mbit Ethernet interface with on-board RJ-45 connector
- 802.3af power pass-through
- Up to four high-speed serial ports
 UART and SPI mode configurable
- I2C bus interface
- USB 1.1/2.0 compliant host/device
 On-board host connector option
- Integrated LCD controller
 Supports active matrix TFT or single/dual panel STN displays (color/monochrome)
- Population options available
 Processor, memory, connectors

Overview

The ConnectCore 9C is a powerful and network optimized ARM9-based core module. It enables original equipment manufacturers to design in main processor functionality and networking capabilities with a single, high-performance solution.

The ConnectCore 9C delivers complete and versatile embedded network connectivity while providing additional main processor performance and bandwidth to handle sophisticated embedded applications. These include building automation systems, POS systems, RFID readers, medical devices, instrumentation, networked displays, transportation systems, industrial automation systems and many more.

Built on leading NetSilicon 32-bit NET+ARM technology, the ConnectCore 9C module also provides a seamless migration path to a fully integrated system-on-chip solution. Based on the easy-to-use and entirely royalty-free NetSilicon NET+Works® development platform, the ConnectCore 9C delivers a complete out-of-the-box solution for embedded software development. It provides all the integrated building blocks needed to quickly and cost-effectively create secure and fully network-enabled product solutions. This minimizes design risk and significantly accelerates the overall embedded software development process.

Complete development kits containing the module, development board, documentation, sample code, hardware/software debugging options, cables and accessories are available for evaluation and development use.

Please contact us at 1-877-OEM-DIGI or 952-912-3444 for additional information or to discuss your specific application requirements.



www.digi.com



REGULATORY APPROVALS (IN PROGRESS) HARDWARE ENVIRONMENTAL 32-bit NS9360 high-performance Operating temperature: FCC Part 15 Class B RISC processor (155 MHz) w/MMU -40° C to +85° C (-40° F to +185° F) EN55022 Class B On-board memory Relative humidity: 5% to 95% EN61000-3-2 4 MB Flash and 16 MB RAM (non-condensing) EN61000-3-3 ICES-003 Class B Up to 4 high-speed TTL serial ports Altitude: 12,000 ft (3657.6 m) AS/NZS CISPR 22 Data rate up to 921 Kbps EN55024 Full signal support Hardware/software flow control UL60950-1 LEDS Up to 4 SPI ports CSA C22.2 No.60950-1-03 Master data rate up to 11.25 Mbps IEC/EN60950-1 Ethernet connector Slave data rate up to 4.5 Mbps VCCI V.3/2001.04 Class B Link integrity • I²C v1.0 bus interface Fast (400 kHz) and normal Network activity (100 kHz) mode Module DEVELOPMENT KIT - Two status LEDs 7-bit and 10-bit address modes FEATURES (software controlled) • USB 2.0 Host/Device Interface ConnectCore 9C module Full speed (12 Mbps) and low speed (1.5 Mbps) support Development board DIMENSIONS LCD controller Macgraigor Raven JTAG debugger or Up to SVGA with up to 18 bpp gdb software debugger Length: 3.50 in (88.90 mm) TFT and single/dual panel STN displays Microcross™ GNU X-Tools Width: 2.10 in (53.34 mm) Documentation General Purpose Timers/Counters/PWM Height: 0.80 in (20.32 mm) Up to 8 independent 16-/32-bit Hardware Reference Manual with RJ-45 Ethernet connector programmable timers, counters, Programmer's Guide **API Reference** or 4 PWM functions Advanced Web Server Toolkit 4 programmable external interrupts CONNECTORS/PINOUTS Sample code Up to 55 shared General Purpose Driver source code Input/Output (GPIO) ports SO-DIMM 144-position socket Serial, Ethernet, I2C, SPI, USB, LCD Up to 7 high-current (8 mA) pins main signal connector ThreadX Real-Time Operating System Real-time clock - AMP 390112-1 or equivalent with picokernel™ architecture Processor powered, no battery backup - Suitable for manual and Requires less than 25 Kb code space machine placement Fusion^{†M} TCP/IP stack with full On-board JTAG connector networking protocol, extended network NETWORK services support, and stack by-pass See Hardware Reference INTERFACE Manual for complete connector Universal IP address assignment and pinout information through Address Configuration Standard: IEEE 802.3 Executive (ACE) Physical Layer: 10/100Base-T POWER Network discovery services Data rate: 10/100 Mbps REQUIREMENTS ADDP, LDAPv3 (auto-sensing) Allegro Software Embedded Web Server Mode: Full or half duplex Module: 3.3VDC @ 450 mA max (auto-sensing) SSL 3.0/TLS 1.0 with strong encryption USB interface: 5VDC @ 500 mA max On-board connector: RJ-45 w/magnetics DES, 3DES, AES (NIST certified) per port (optional) Flexible and robust file system 802.3af power pass-through supporting RAM and Flash (mid-span and end-span) SMICng SNMP MIB compiler Micro XML SAX parser MODEL.....PART NUMBERS Additional utilities HTML-to-C compiler North America International Model Flash download ConnectCore 9C NET+Works GNU CC-9C-GN CC-9C-GN Development Kit w/Raven Debugger ConnectCore 9C NET+Works GNU CC-9C-GN-NR CC-9C-GN-NR

Bulk packs and population options available. Please visit our website for a complete list of available part numbers and product support options.

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