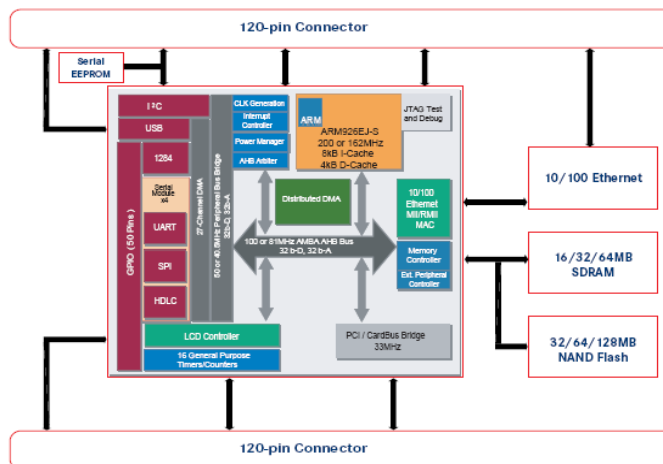


ConnectCore™ 9P



Compact high-performance 32-bit NET+ARM processor module family combines superior performance and design integration flexibility with complete embedded software platform support.



Features/Benefits

- 240-pin core processor module in compact 60 x 44 mm form factor
- Powerful 32-bit NET+ARM processor
 - NS9750/9360 with ARM926EJ-S core
- Up to 128 MB Flash / 128 MB RAM
- On-board 10/100 Ethernet MAC/PHY
- Up to 4 high-speed serial ports
 - UART and SPI configurations
- USB host and device mode support
- Fast-mode I²C hardware interface
- On-chip LCD controller (TFT/STN)
- Integrated Real-Time Clock w/support for external battery backup
- Up to 73 shared GPIO port options
- External memory bus interface
- PCI v2.2/Cardbus option (NS9750)
- Complete development platform support offers software design flexibility
 - NET+OS®, LxNETES™ Linux and Microsoft® Windows® CE 5.0

Overview

The ConnectCore 9P modules are part of the ConnectCore embedded core processor module family combining superior performance and a complete set of integrated peripherals and component connectivity options in a compact and versatile form factor.

Built on leading NetSilicon® 32-bit NET+ARM technology, the network-enabled ConnectCore 9P family provides a modular and scalable core processor solution that significantly minimizes software and hardware design risk and dramatically improves the time-to-market aspects of your product development process.

The wide range of available embedded software platform options makes it the ideal choice for your network-enabled product solutions, whether your application requires the small footprint, fast response time, and secure networking offered by our ThreadX®-based NET+OS environment, the comprehensive and scalable set of feature-complete high-level software components and applications of Microsoft Windows CE, or the flexibility and power of the open Linux environment and its extensive software library.

Complete and royalty-free development kits supporting the NET+OS, LxNETES Linux, and Microsoft Windows CE environments are available for platform evaluation and product development use. All development kits include a development board, hardware debugging options, board support packages, sample code, documentation, cables, and related accessories.



Features/Specifications

HARDWARE

ConnectCore 9P 9750

- 32-bit NET+ARM (ARM926EJ-S) high-performance RISC processor NS9750 @ 200 MHz
- Up to 128 MB NAND Flash and 64 MB SDRAM
 - Standard population 32 MB Flash and 16 MB RAM
- Integrated 32-bit PCI v2.2/Cardbus Bridge (33 MHz)
- 16 General Purpose Timers/Counters
- Up to 50 GPIO port options

ConnectCore 9P 9360

- 32-bit NET+ARM (ARM926EJ-S) high-performance RISC processor NS9360 @ 177 MHz
- Up to 128 MB NAND Flash and 128 MB SDRAM
 - Standard population 32 MB Flash and 32 MB RAM
- 8 General Purpose Timers/Counters or 4 PWM functions
- Up to 73 GPIO port options

ConnectCore 9P Family

- Integrated 10/100 Mbps Ethernet MAC/PHY
- Up to four serial interfaces w/UART and SPI mode
- Integrated USB 2.0 compliant host/device interface
 - Full speed (12 Mbps) and low speed (1.5 Mbps) mode
- On-chip I²C bus interface (100/400 kHz)
- Flexible LCD controller with support for TFT/STN displays
 - Up to SVGA resolution with up to 18/24 bpp
- External memory bus interface
 - 32-bit data bus and 28-bit address bus
- Real-Time Clock (RTC) w/support for external battery backup
- 8 KB serial EEPROM for configuration storage
- On-board JTAG interface

DEVELOPMENT KITS

- NET+OS 6.1
 - Hardware debugger
 - GNU development tool chain
 - gcc v3.2.1, Insight v5.1.1
 - binutils v2.13.1, newlib v1.11.0
 - ThreadX™ RTOS
 - Fusion™ TCP/IP stack
 - DNS, SNMPv2, LDAP, POP, SMTP, PPP, FTP, SNTIP, Telnet, FastIP, Fast Sockets, Multi-Homing
 - Universal IP address assignment
 - Static IP, DHCP, BOOTP, Auto-IP
 - Allegro embedded web server
 - SSL/TLS with DES/3DES/AES encryption
 - Flash/RAM file system with wear-leveling
 - SMIcng SNMP MIB compiler
 - Micro XML SAX parser
- Microsoft Windows CE 5.0
 - Complete BSP (Board Support Package) for Microsoft Windows CE 5.0 w/source code
 - Boot loader (U-Boot)
 - On-chip Ethernet
 - USB Host
 - Display driver (LCD)
 - Touch Screen
 - PCI
 - LxNETES 3.1
 - Linux kernel v2.6.11
 - GNU development tool chain
 - gcc v3.3.3, gdb v6.2
 - uClibc v0.9.26, Busybox v1.00 pre-built
 - File system support for JFFS2 and NFS
 - I²C, USB, PCI, EEPROM support
 - BOA single-tasking HTTP server

All development kits provide sample code and documentation, development board with hardware support for Ethernet, RS232, USB, CAN bus, audio, LCD, touch screen, Mini PCI, CompactFlash, and a power supply.

MODEL.....PART NUMBERS

Model	North America	International
CC9P 9750 NET+OS 6.1 Development Kit	FS-9053	FS-9053
CC9P 9750 LxNETES 3.1 Development Kit with 5.7" LCD (TFT) and touch screen	FS-9033	FS-9033
CC9P 9750 Microsoft Windows CE 5.0 Kit with 5.7" LCD (TFT) and touch screen	FS-9034	FS-9034
CC9P 9360 LxNETES 3.1 Development Kit with 5.7" LCD (TFT) and touch screen	FS-9065	FS-9065
CC9P 9360 Microsoft Windows CE 5.0 Kit with 5.7" LCD (TFT) and touch screen	FS-9066	FS-9066

Please contact us for additional part number information or visit our website.

ENVIRONMENTAL

- Storage temperature:
 - 50° C to +125° C (-58° F to +257° F)
- Operating temperature:
 - 0° C to +70° C (+32° F to +158° F)
- Relative humidity:
 - 5% to 90% (non-condensing)
- Altitude: 12,000 feet (3658 meters)

POWER REQUIREMENTS

ConnectCore 9P 9750

- 3.3VDC @ 600 mA (max)

ConnectCore 9P 9360

- 3.3VDC @ 400 mA (max)

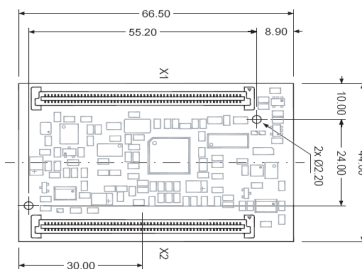
ETHERNET INTERFACE

- Standard: IEEE 802.3
- Physical layer: 10/100Base-T
- Data rate: 10/100 Mbps (auto-sensing)
- Mode: Full or half duplex (auto-sensing)

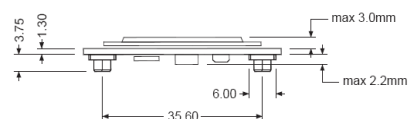
DIMENSIONS

- Length: 2.362 in (6.0 cm)
- Width: 1.732 in (4.4 cm)
- Height: 0.395 in (1.0 cm)

Bottom View



Side View



All measurements in millimeter



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