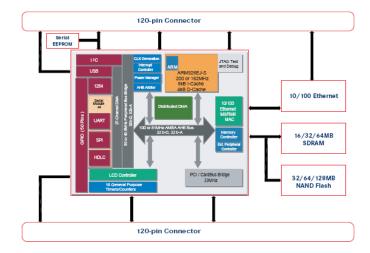


ConnectCore™ 9P

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.



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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



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

DIMENSIONS

Bottom View

• Physical layer: 10/100Base-T

Length: 2.362 in (6.0 cm)

Width: 1.732 in (4.4 cm)

• Height: 0.395 in (1.0 cm)

- Data rate: 10/100 Mbps (auto-sensing)
- Mode: Full or half duplex (auto-sensing)



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, SNTP, 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

FS-9053

FS-9033

FS-9034

FS-9065

FS-9066

- 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

FS-9053

FS-9033

FS-9034

FS-9065

FS-9066

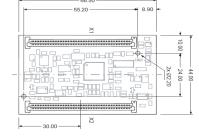
- File system support for JFFS2 and NFS I²C, USB, PCI , EEPROM support
- BOA single-tasking HTTP server

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.

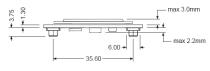


CC9P 9750 NET+OS 6.1 Development Kit CC9P 9750 LxNETES 3.1 Development Kit with 5.7" LCD (TFT) and touch screen CC9P 9750 Microsoft Windows CE 5.0 Kit with 5.7" LCD (TFT) and touch screen CC9P 9360 LxNETES 3.1 Development Kit with 5.7" LCD (TFT) and touch screen CC9P 9360 Microsoft Windows CE 5.0 Kit with 5.7" LCD (TFT) and touch screen

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



Side Vew



All measurements in millimete





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You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong five-year warranty.

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