

Embedded 486/586 PC with Built-in UDP/IP Stack Netsock/435



Netsock/435 provides a turnkey, network-oriented platform on which to build embedded systems. Based on the Micro/sys SBC1491 embedded PC and its built-in 10BASE-T Ethernet port, Netsock/435 is a powerful 486/586 computer that offers high performance, and that can significantly reduce development time.

In addition to the SBC1491's 486/586 CPU, large memory capacity, VGA output, and preloaded operating system, Netsock/435 also includes the innovative embedded Netsock UDP/IP stack. Upon power-up, a subset of the popular Winsock functions is immediately available for powerful networking operations.

Features

- ✓ Ready-to-run embedded PC
- ✓ 10Base-T Ethernet port with onboard Embedded Netsock™ UDP/IP stack
- ✓ Small PC104 format
- √ 486/586 CPU, 133MHz
- ✓ DiskOnChip[®]
- ✓ COM1, COM2, KBD, mouse, speaker
- ✓ PC/104 expansion
- √ -40°C to +85°C operation available

With networking software pre-integrated, bringing up multi-station embedded systems is much easier than in the past. And there are no royalties for any of the included software when production volumes begin.

Netsock/435 is completely turnkey. It displays a sign-on message when 5V is applied. Clip in a standard network cable, and it communicates with a network. Cables, documentation, and example programs are all supplied with the free development kit.

Software Support

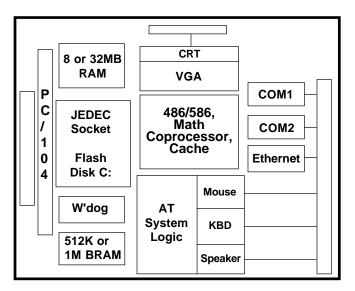
DOS emulation, MSDOS 6.22, Linux, VxWorks®, 32-bit RTOS, Windows 98/NT/CE, TurboDebugger™ Comm library, CommBLOK™, PID loop library, PidBLOK™, C, compilers [items above in Section 6]

Compatible Hardware

PC/104 expansion cards [items above in Section 4] RS232/RS485 devices Custom

Mounting/Packaging

Standoffs, STDOFF01 [Items above in Section 5] ENC104-2 ENC104-4 [Items above in Section 3] Custom



Winsock API Subset socket () closesocket () setsockopt () getsockopt () recvfrom () sendto () bind () ioctlsocket () inet addr() inet_ntoa() WSAStartup () WSACleanup () WSAGetLastError ()

Specifications:

Embedded PC Features:

□ PC/104 format □ 486/586 CPU at 133MHz

☐ 64MB RAM

☐ DiskOnChip® support

□ VGA, COM1, COM2, KBD, mouse

See SBC1491 data sheet for complete details

Free On-board Network Software:

□ Flash SetUp™ configuration utility

□ UDP/IP driver stack preloaded into flash

☐ Implements subset of Winsock functions [see chart above]

☐ IP, UDP, ARP, DHCP, ICMP protocols

☐ Dynamically linked with application program Version available without UDP/IP stack. Call factory for information.

Ordering Information:

Single Board Computer:

Netsock/435 SBC1491. Ethernet &

Embedded Netsock™

Netsock/435-ET Extended Temperature

Version

DK435N No charge development kit

with first order

14910PT3 512KB battery-backed RAM 14910PT4 1MB battery-backed RAM

1491OPT20 10BASE-T Ethernet MSDOS in bootable flash

ROMdisk A:

1491OPT50 Linux startup kernel installed

in flash

Netsock/430-ATL Call factory for ordering

information on

Netsock/430-ATL. Drop-in replacement for Netsock/430

32MB through 1GB DC32 through

DC1G DiskOnChip® ENC104-2 Subfloor

ENC104-4 Enclosure

14910PT25

Add -ET to option for extended temp operation

RUN.EXE, Flash Setup, Embedded Netsock trademark Micro/sys, Inc.

CommBLOK, PidBLOK, OptoBLOK trademark Drumlin Turbo Debugger trademark Borland International

VxWorks trademark Wind River