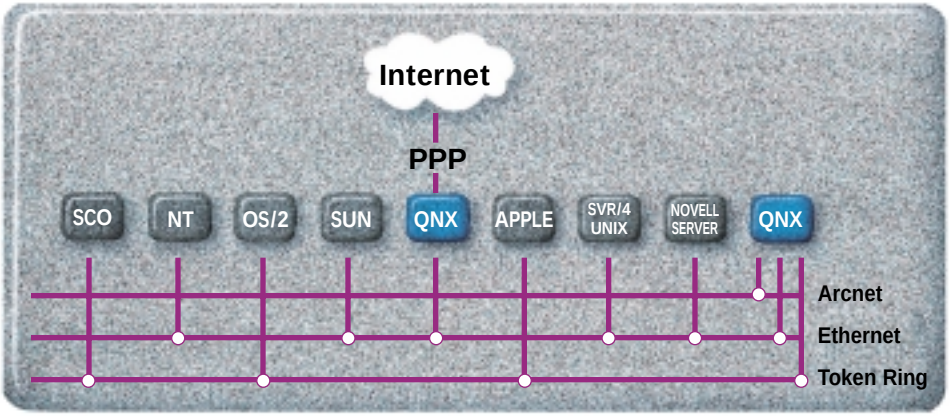
TCP/IP for QNX®

Enjoy the ultimate in connectivity

A full implementation of the industry standard, TCP/IP for QNX connects your QNX system to the world.

TCP/IP for QNX, combined with QNX networking, gives you the ultimate in connectivity. In addition to network connectivity, you get support for PPP and SLIP. So any serial port on a QNX node can be your link to the Internet, the company WAN, and so on.



Share a common network

Since QNX and TCP/IP can share the same network segment, a QNX node can act as a gateway, allowing any QNX workstation or terminal to access any non-QNX node on a TCP/IP network.

Run a variety of Internet services

The QNX **`Socket`** IP Manager supports a variety of protocols, including TCP, UDP, and IP. If you're running a high-bandwidth application, this 32-bit suite boasts first-rate performance: 1.01 Mbytes/sec on 10M Ethernet.

You can run a variety of Internet services over your choice of networks, including FDDI, Token Ring, or serial lines to:

- connect to the Internet
- log in to remote systems
- access the corporate WAN
- transfer files
- exchange mail
- run remote user interfaces
- write socket applications

What's more, **`Socket`** supports NFS applications for transparent file access to local or remote network filesystems.

Opt for TCP/IP "lite"

If you want all the services of **`Socket`** except NFS, try **`Socklet`**, our light-weight and cost-effective IP manager that delivers a high-performance TCP/IP stack on a small footprint.

There's no need to compromise with **`Socklet`**. The full suite of familiar utilities (**`ftp`**, **`telnet`**, **`ping`**, etc.) along with support for traditional applications (such as RPC) are included. You also get:

- a familiar BSD API (rooted in the Net 2 release)—makes porting UNIX software and web applications to QNX a breeze
- SNMP v2—for querying devices, receiving traps, and monitoring traffic flow
- PPP—for remote access to Internet service providers (includes the PAP and CHAP authentication protocols)
- DHCP client—for easy configuration on your LAN
- Embedded web server—for remotely controlling a printer, retrieving statistics from a PLC, or trouble-shooting virtually any embedded device from a local web browser (supports CGI1.1 and HTTP1.1)

QNX®
The Leading Realtime OS for PCs
now multiplatform

Runtime System

The runtime system comes with installation, management, server, and client programs, including:

arp	popper	sendmail
bootpd	portmap	showmount
dhcp.client	pppd	slattach
ftp	rcp	slinger
ftpd	rexecd	sliplogin
hostname	ripquery	snmp...
ifconfig	rlogin	Socket
inetd	rlogind	Socklet
lpd...	route	Sockppp
mountd	routed	syslogd
named	rpcinfo	telnet
netstat	rsh	telnetd
nfsstat	rshd	tftp
nslookup	rwho	tn3270
pcnfsd	rwhod	traceroute
ping		

Minimum runtime requirements

- QNX realtime OS
- 8M available disk space for full installation
- 512K free memory for embedded client environments
- 512K additional memory for desktop or server environments
- 512K additional memory for NFS

Supported networking hardware

For easy access to specific hardware, we support a large selection of drivers, including:

- 3Com 10 Mbit Etherlink II, Etherlink III (ISA), 3C905A & B 10/100 Mbit (PCI), 3C589 10 Mbit Ethernet (PCMCIA)
- AMD 10 Mbit Ethernet 79C960, 79C961 & NE2100 (ISA), 79C965 (VESA), 79C970, 79C971, 79C972 (PCI), 79C974 (Ethernet/SCSI for PCI)
- Crystal Semiconductor 10 Mbit CS8900 Ethernet (ISA)
- Digital 10/100 Mbit Ethernet 21040, 21041, 21140 (e.g. SMC EtherPower) 21142, 21143 (PCI)
- Digital 100 Mbit FDDI (EISA & PCI)
- IBM & TROPIC-based 16/4 Mbit Token Ring (ISA & MCA)
- IBM Solo 16/4 Mbit Token Ring (PCI)
- Novell NE1000 & NE2000 10 Mbit Ethernet (ISA, MCA, PCMCIA, PCI)
- SMC 10 Mbit Ethernet 91C90, 91C92, 91C94, 91C96 (ISA), Epic (9432) 10/100 Mbit (PCI)
- WD/SMC 10 Mbit Ethernet 8003, 8013, Elite, Ultra, EtherEZ (ISA & MCA)
- Intel 82557, 82558, 82559, 10/100 Mbit Ethernet (PCI), 82595 10 Mbit Ethernet (ISA)

Documentation*

User's Guide

Explains how to install TCP/IP for QNX and use common applications. Includes man pages for utilities and configuration files.

TCP/IP Network Administration **(O'Reilly & Associates)**

Gives lots of practical advice on various topics, including routing, troubleshooting, and network security.

Development System

TCP/IP for QNX comes with a Berkeley Socket API that lets you write programs for peer-to-peer communications over TCP/IP connections. It includes routines for establishing communication channels, transferring data, and manipulating network data files.

Development system also requires:

- Compiler and tools
- Additional 4M of disk space

Documentation*

Programmer's Guide

Contains socket-programming tutorials and man pages for libraries and protocols.

Power Programming with RPC **(O'Reilly & Associates)**

Explains the remote procedure calling protocol—a user's guide and reference manual all in one. Uses extensive examples to demonstrate client/server and distributed systems.

** System comes with online guide. Printed version and O'Reilly book available at additional cost.*

Contact Information

Voice
Head Office ..... +1 613 591-0931
North America 1 800 676-0566
United Kingdom ..... +44 (0) 1223 364503
France ..... +33 1 646 15911
Germany ..... +49 (0) 511 94091-0
Fax ..... +1 613 591-3579

Email ..... info@qnx.com
Telnet ..... quics.qnx.com
Anonymous ftp ..... ftp.qnx.com
Dial up (ANSI, VT100) +1 613 591-0934

www.qnx.com

QNX®
The Leading Realtime OS for PCs
now multiplatform

Printed in Canada. Part number: 301033b