

InterNiche's *NicheLite™* is the only fully featured TCP/IP stack available that requires as little as 12 KB of memory.

Included Protocol Modules

- Address Resolution Protocol (ARP)
- Internet Protocol (IP)
- Internet Control Message Protocol (ICMP)
- User Datagram Protocol (UDP)
- Transmission Control Protocol (TCP)
- Dynamic Host Configuration Protocol (DHCP) Client
- Bootstrap Protocol (BOOTP)
- Trivial File Transfer Protocol (TFTP)

NicheLite TCP/IP Highlights

- Complete TCP/IP in less than 12 KB of ROM
- Raw IP/UDP/TCP Protocol support
- Highly scaleable
- Zero data copy for ultra fast performance
- Installable subset socket library
- Non-blocking versions of all functions
- Versatile MSS and window options
- Connections limited only by memory availability
- Optimized assembly language checksum routines available
- "Predictive" header processing for speed
- Nagle Algorithm (Slow Start)
- VJ Smoothed Round Trip Timing
- Delayed ACKs
- BSD style "Keepalive" option
- Includes NicheTool™ debugging and optimization module
- No "GPL Contamination"

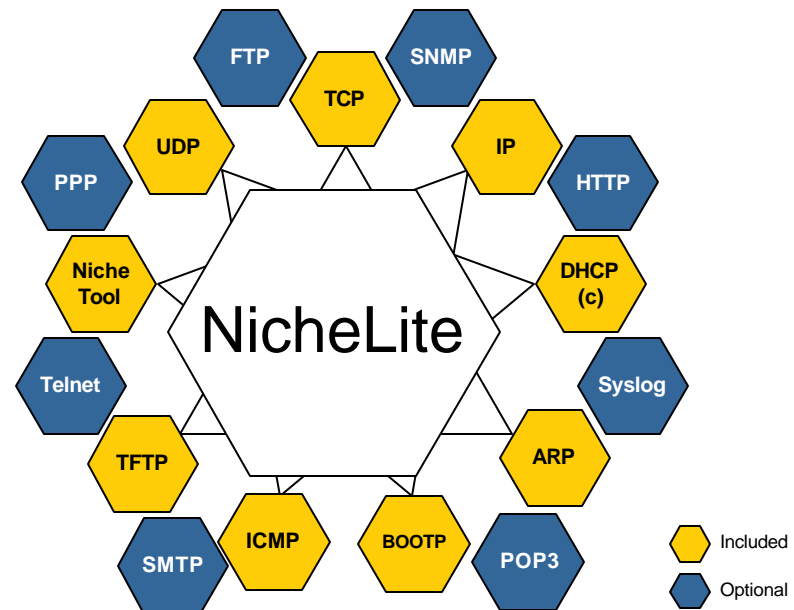
NicheLite™ TCP/IP Ultra-compact Device Networking Protocols

NicheLite™ product is the only fully featured TCP/IP stack available that requires as little as 12 KB of memory. A highly portable and RFC compliant implementation of the TCP/IP protocol suite written in ANSI C, the product includes a comprehensive subset of the TCP/IP family of protocols, a "Mini" Sockets API, and a highly effective system optimization and tuning tool.

The NicheLite IP layer supports one hardware interface and provides full compatibility with NicheStack PPP, FTP, Telnet Server, HTTP Server, DHCP Server, Email, and SNMP products from InterNiche. NicheLite is also fully instrumented for MIB-II access by SNMP agents. MIB-II tables include: Interfaces, IP, ICMP, TCP and UDP.

NicheLite's portable TCP layer is fast, small, and optimized for embedded systems. Packet data, including headers, is in contiguous buffers to simplify memory management and avoid data copies. Macros to protect critical sections of code are used sparingly to improve throughput and reduce memory requirements

The stack tunable parameters such as MSS (Maximum Segment Size) and the TCP window size can be left to the runtime logic or be customized for your application.



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InterNiche Device Networking Products

InterNiche is the premier specialist provider of internet protocol software stacks and networking expertise specifically targeted at connected device implementation. InterNiche offers a broad range of TCP/IP protocol suites, optimized for maximum performance and minimum memory footprint on the highly integrated VLSI at the heart of today's device designs.

All InterNiche device networking products are engineered for rapid, seamless integration with best-in-class development environments for the leading VLSI architectures. The combination of rapid integration and low overhead specifically addresses the challenges faced by device development teams by offering maximum networking performance and manageability within a low cost system implementation.

InterNiche provides a tasking API that is adaptable to almost any RTOS environment, so that the development team can easily interface to the necessary functions and incur no additional overhead. Throughput is maximized through effective usage of zero-copy buffers and availability of assembler optimizations for critical code sections.

A modular approach to the entire suite of protocol products maintains a development team's capability to profile stack features to match specific device requirements. With configuration flexibility and the tools to identify and eliminate integration problems development teams find that system integration using InterNiche products is smooth and predictable.

InterNiche products are supplied as portable ANSI C source code packages under royalty-free license terms. All products include full technical documentation and a first 12 months of highly responsive support service, which includes access to technical experts via email, web, Fax, and telephone.

For further information on any of these products or services please call, email or visit our web site.

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The Specialist Provider of Software and Expertise for Device Networking

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