

NicheStack SNTP is a low cost add-on module for NicheStack. Its seamless integration means that the developer can effortlessly add accurate time information to any network-connected project.

NicheStack SNTP Highlights

- RFC4330 compliant
- One year Technical support
- Small memory footprint
- Simple API
- NicheTool™ integration
- No "GPL Contamination"

NicheStack SNTP

SNTP is an effective tool for the synchronization of networked devices where accurate time stamps are important to the integrity of the network application. NicheStack SNTP is an optimized implementation of version 4 of Simple Network Time Protocol specifically engineered for the requirements of device management and networked applications.

Providing a simple API, the UDP-based SNTP client can be configured with the addresses of a number of external servers, periodically issuing synchronization requests and dynamically managing the list to ensure that busy or unresponsive servers are only queried as a last resort.

Key features and benefits of NicheStack SNTP include:

- RFC4330 implementation
- Unicast, multicast or broadcast protocol operation
- Configurable synchronization interval
- Support for "kiss-o'-death" message
- Small footprint in terms of both CODE and DATA
- Simple API
- "Thread Safe" in multi-tasking systems
- Runs on NicheStack and 3rd party stacks
- Ideal for factory-floor synchronization, logfile or email time stamping, and "uptime" calculations.

NicheStack SNTP is distributed as full ANSI "C" source code, is RFC compliant and has been extensively tested for interoperability with multiple SNTP and NTP server reference implementations.

NicheStack SNTP also includes enhancements to NicheTool, the most comprehensive debug and system optimization tool available in any commercially TCP/IP stack. Menu driven and customizable by development engineers for any added components, this very useful utility greatly assists the process of optimizing NicheStack for the memory usage and performance characteristics of the 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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