

The NicheStack PPP protocol toolkit is a complete, cost effective serial communication package that complements other InterNiche products for devices requiring modem support either as a primary or secondary method of establishing network connectivity.

NicheStack PPP Highlights

- Seamless integration of PPP with NicheStack and NicheLite TCP/IP products
- Includes VJ header compression
- Offers a selection between PAP, CHAP and MSCHAP authentication protocols
- Hayes-style modem dialer framework included
- Supports multiple simultaneous links (multilink PPP)
- Supports DHCP over PPP
- Supports computer-to-computer direct connect protocols
- Includes LCP and IPCP
- Option to provide PPPoE support for specialist applications
- No "GPL Contamination"

NicheStack PPP and PPPoE - Optimized Modem Protocols

While many networked devices rely on Ethernet LANs, serial communication plays a significant role in machine-to-machine applications. Point to Point Protocol (PPP) is an important backup option even for broadband connected systems. NicheStack PPP is a complete, cost effective serial communication package that complements other InterNiche products for devices requiring modem support either as a primary or secondary method of establishing network connectivity.

Like all InterNiche products, NicheStack PPP is optimized for developers of connected devices and offers an economical and high performance dial-up component to be used in a seamless integration with NicheStack IPv4 or NicheLite.

The NicheStack PPP component can be used to support dial-up client or server implementations and supports all standard PPP authentication protocols plus the option of client DHCP address assignment over PPP. To achieve higher bandwidth connections, multiple sessions can be aggregated using Multilink PPP support.

InterNiche also offers PPPoE (PPP over Ethernet), typically used in conjunction with DSL modem authentication and negotiation that providing encapsulated PPP data within Ethernet frame for transmission to central office equipment.

NicheStack PPP has been extensively tested against numerous server applications and proven in hundreds of device designs worldwide.

For more information:
sales@iniche.com /+1 408 540 1160
sales-europe@iniche.com /+31 24 373 7962



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.

Phone: +1 408 540 1160

Europe: +31 24 373 7962

Fax: +1 408 540 1161

sales-europe@iniche.com

Email: sales@iniche.com

InterNiche Technologies, Inc.

51 E Campbell Ave, Suite 160

Campbell, CA 95008

USA

www.iniche.com

The Specialist Provider of Software and Expertise for Device Networking

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For more information:

sales@iniche.com /+1 408 540 1160

sales-europe@iniche.com /+31 24 373 7962

