

NicheStack Mail - SMTP and POP3 Device Protocols. Email can be an effective tool for the management of networked devices and the integration of devices into business systems. NicheStack SMTP and NicheStack POP3 clients are optimized implementations of standard email protocols specifically engineered for the requirements of device management and networked applications.

InterNiche Email Highlights

- Sockets interface and simple user API makes Email integration quick and easy
- Callable from ISRs and critical sections
- Uses standard SMTP protocol
- Flexible API features for configuration and management
- Supports multiple target Email addresses sets
- Supports many individual messages and formats
- POP3 protocol offers economical connection to standard Email servers
- Employs plain text authentication or optional APOP (MD5) encryption
- Flexible API with options for query configuration and mail stream management
- No "GPL Contamination"

SMTP

NicheStack SMTP uses the Simple Mail Transfer Protocol to transmit Email messages from your embedded device to any standard SMTP server. A device application can use this capability to autonomously send status reports, periodic logs or event alerts to monitoring centers or pagers worldwide.

Using a simple API, NicheStack SMTP supports transmission to multiple addresses, sending multiple messages, incorporating multiple formats and operating on a periodic basis or responding to application events. As with all InterNiche products, the low profile implementation requires very few system resources and is easy to integrate and configure within a networked device.

POP3

The NicheStack POP3 is an economical companion to NicheStack SMTP and enables networked devices to receive Email content from any standard POP3 server. Embedded email contents can be used to trigger system status reports or updates, receive system configuration information or to provide a closed loop feedback system for Email transmissions. The simple API for the NicheStack POP3 toolkit enables autonomous receipt of information from a system administrator or automated distribution server, providing such additional information as number of available mail messages, byte length of each message and overall success or failure. POP3 server logon can be secured through plain text logon or the more sophisticated MD5 digest authentication mechanisms.

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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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