



NexGenMAIL

Networking utilities

- **Fully written in ANSI C**
- **Optimized (2 - 12 KB)**
- **Reentrant & Romable**
- **POP3, SMTP, IMAP**
- **Client side**
- **Fast and reliable**
- **Polling or RTOS mode**
- **No compiler dependencies**
- **Fully tested**
- **Source code, royalty-free**



Optional protocols:

- NAPT
- SNMP v1/v2/v3
- Dual TCP/IP v4/v6
- RTP/RTSP
- PPPv6
- DHCP server (v4)
- FTP client & server
- SSL
- HTTP client & server

BUILT FROM THE GROUND UP

NexGenMAIL was designed from the ground up to satisfy both embedded constraints and OEM specificities. It is compact, highly portable and can be easily configured to support various configurations.

ARCHITECTURE

SMTP defines a standard way to transfer mail between Internet hosts in a reliable and efficient manner. It is used by mail capable hosts to communicate between each others.

SMTP requires a communication channel on top of a TCP/IP stream flow. Its functioning scheme is based on a simple request/answer dialog, allowing to exchange commands, replies and core mail messages between SMTP hosts. You may for instance want to use e-mail to report some error or to log activity of applications running on top of the NexGenIP stack.

Just like SMTP, POP3 is a connection oriented protocol and one can use a single connection to check mailbox state, to get detailed information about its content and even to download several messages from server.

The Domain Names System is a generic resources naming service that is designed to be used across different hosts, networks, and internets. From the end-user point of view, DNS does the association between an host IP address and its "human" name associated.

PORTABILITY

NexGenMAIL can be used either in polling or RTOS mode. All dependencies have been isolated in a porting layer called NexGenOS. By using a such architecture the stack is totally portable in few days.

NexGenOS includes a wrapper of the most popular RTOS including Nucleus, pSOS, VxWorks, Linux, DOS, Win32k, OS20/21, EmBOS, OSE, Neutrino, QNX4, RTC, RTKernel, RTX, µC/OS, and virtually any others RTOS. There are also numerous Ethernet drivers included.

SUPPORTED PROCESSORS & RTOS

Most of the 16-32 -64 bit processors are supported. x86, SH-series, ARM, 68K, Coldfire, ARC, M16/32C, C166, StrongARM, MIPS, ST20, ST40, DSP, PowerPC, 320C5416. A new port takes a couple of days to develop.

TECHNICAL SUPPORT

6 months free of charge.
Extended annual support available.
Specific development or porting are possible. Please call us.

LICENSING

Source code, per-projet, royalty-free

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