



Embedded FreeBSD Single Board Firewall

Stateful Inspection Firewall, FreeBSD Embedded Single Board Computer (SBC) with intrusion detection (IDS) and safeguard DoS/DDoS attacks, unlimited IPSec and PPTP VPN connections, DMZ port for public servers such as NAS or web-cams, proxy cache, SIP Proxy, media bandwidth management and wireless ready slot.

[Specifications embedded m0n0wall](#)

[webGUI screenshot1](#) [screenshot2](#) [Datasheet](#) 

Works with any cable and DSL modem/router to be used and makes for several users possible the simultaneous connecting to internet and protects the local network against attacks.



Image: ALIX.2C1 (LX700) Single Board Computer

Features

- LAN port 10/100 Ethernet
- WAN port 10/100 Ethernet
- DMZ port 10/100 Ethernet
- miniPCI slot
- CF slot include 128MB CompactFlash

ready-to-operate m0n0wall „plug ..and use”

Order Online 

Supplying Accessory:
Operating System on CF-Card (FreeBSD/m0n0wall)



18V AC adapter
Euro version: 100 - 240VAC, 47 - 63 Hz
Output: 18V DC / 800mA, 2.1 mm DC



FreeBSD © 1994-2004 The FreeBSD Project. All rights reserved.
m0n0wall® © 2003-2008 by Manuel Kasper. All rights reserved.

©2007 A-Enterprise GmbH

Dimensions: 155(L) x 155(B) x 25(H)mm, Weight: 440g

Operating environment

Temperature: 0°C - 50°C Humidity: 5 - 90 %
(non-condensing)

System requirements

Broadband-Internet service (cable, DSL, Satellit or Wireless)
and Modem with RJ-45 Ethernet plug (adaptor or cable)
Running on Windows, Mac or Linux based Operating system
Internet Explorer 5.0 or more, Netscape 4.5 or more
Opera 7.0, Mozilla 5.0, Firefox 1.5 or more

Hardware Specifications:

System Board: PC Engines ALIX2C1
CPU: 433 MHz AMD Geode LX700
DRAM: 128 MB DDR DRAM
Expansion: 1 miniPCI slot, LPC bus
Storage: Operating system and application stored on
CompactFlash 128MB, (OS require < 5MB)
Power: DC jack or passive POE, min. 7V to max. 20V
Three front panel LEDs, pushbutton
Connectivity: 3 Ethernet channels (Via VT6105M 10/100)
Console I/O: DB9 serial port
Firmware: tinyBIOS
FastEthernet Standard: IEEE 802.3u, 100Base-T

Software OS-Specifications:

- webGUI interface (supports SSL)
- **New!** adds role-based webGUI access
- serial console interface for recovery
 - set LAN IP address
 - reset password
 - restore factory defaults
 - reboot system
- wireless support access point with PRISM-II/2.5/3 cards,
BSS/IBSS with other cards including Cisco
- captive portal with RADIUS handling
- 802.1Q VLAN support
- stateful packet filtering
 - block/pass rules
 - logging
- NAT/PAT (including Inbound, Server NAT, 1:1 and Outbound)
- DHCP client, PPPoE, PPTP and Telstra BigPond Cable support on
the WAN interface
- IPsec VPN tunnels (IKE; with support for hardware crypto cards
and mobile clients)
- PPTP VPN (with RADIUS server support)
- static routes
- DHCP server, DHCP Relay
- caching DNS forwarder
- DynDNS client, RFC 2136 Dynamic DNS updates
- SNMP agent
- traffic shaper
- SVG-based traffic grapher
- firmware upgrade through the web browser

- Wake on LAN client
- configuration backup/restore stored in one single XML text file
- host/network aliases
- Logs/syslog'ing to remote syslog server
- Diagnostics, ping, DHCP leases, IPsec & more

Software used

- the entire PHP configuration subsystem - written by Manuel Kasper
- the webGUI - written by Manuel Kasper
- FreeBSD 6.2
 - kernel:
 - made ipfw2 module with default to accept
 - compiled with netgraph support for MPD
 - compiled with FAST_IPSEC, the crypto framework and hifn
 - imported ipfilter 4.1.28
 - ipfilter ICMP checksum and window scaling fixes
 - userland:
 - included only the binaries which are absolutely required
 - linked all binaries dynamically
 - syslogd: added circular logging support (clog)
 - bootloader: patches for read errors with some CF cards
- BPALogin 2.0.2
- choparp
- Dnsmasq 2.39
- ez-ipupdate 3.0.11b8
- ISC DHCP server 3.0.5
- MPD 3.18
- mini_httpd 1.19
- msntp 1.6
- nsupdate BIND 9
- PHP 4.4.8 compiled as CGI version
- ipsec-tools 0.6.7
- Racoon 20050510a
- UCD-SNMP: 4.2.6
- wol 0.7.1