



Product Highlights

- 📌 **Highest Performance** • By far the fastest product in its class. Powerful Network Processor architecture providing 2 Gbps firewall and 300 Mbps VPN throughputs. High performance managed layer 3 Giga switch.
- 📌 **Smallest form-factor** • Slim 1/3U design equivalent to large full 1U x86 servers in competitive products.
- 📌 **Low cost** • Lowest cost solution for OEM to deploy broadband Unified Threat Management (UTM) solutions at large volume for SMB / Enterprise.
- 📌 **Highest Security** • Powerful hardware acceleration for crypto (VPN) and Deep Packet Inspection (DPI).
- 📌 **Flexibility** • One independent Giga WAN port and 5 Giga LAN ports. 2 USB 2.0 ports. One console / modem port. Optional SATA port. Internal Mini PCI Express slot for optional wireless LAN. USB support for 3g cellular modem.
- 📌 **High reliability** • Low power consumption, no moving part. Designed, manufactured and tested for highest MTBF.
- 📌 **Fast time to market** • Complete documentation and SDK for rapid product development. Debug board available for early developers.
- 📌 **Customizable to OEM spec** • Custom software may be loaded, custom paint, logo and unique ID during production at small charge.
- 📌 **Worldwide certification** • Product is fully certified for worldwide use.

Miniature Giga UTM

HSL's Giga Slim Network Security appliance is an extremely powerful OEM product designed for multilayered security market. Using latest Marvell Sheeva™ processor running at 1.2 to 1.5 GHz with hardware acceleration support for Deep Packet Inspection (DPI) and crypto, this appliance can easily compete with much larger x86 servers being used today. Optimized and stable Linux image can be used by vendors to accelerate product development and time to market. Vendors can easily implement CPU intensive features such as: IPsec, SSL VPN, DPI, IDS / IPS, Anti virus, Anti spyware, Web filtering, Anti spam, Traffic shaping, VoIP gateway, video streaming etc.

Designed for Flexibility

This unique miniature design is packed with features and options. With six configurable Giga LAN ports and two USB 2.0 ports, one Mini PCI Express supporting IEEE 802.11n wireless cards, serial / console port and optional SATA port, this small enclosure enables variety of services and supports many peripherals.



Product Specification

General	<ul style="list-style-type: none"> 6 Giga ports Unified Threat Management Appliance for OEM 2 Gbps firewall / 300 Mbps VPN throughput class firewall UTM appliance Support for Deep Packet Inspection (DPI) and Crypto acceleration in hardware Slim 1/3U design
Potential Applications	<ul style="list-style-type: none"> Home, SMB, Education, Healthcare remote managed security appliance Media server, Multimedia Network Attached Storage, Ethernet-based AV distributions systems Residential gateway with home media vault, IP video recorder / player ISP virtual storage appliance High throughput (300 Mbps) VPN / Crypto appliance
CPU	<ul style="list-style-type: none"> Marvell Sheeva 88F6281 RISC Architecture ARM processor @1.2 GHz (optional 1.5 GHz) 32 kilobytes of instruction cache (I-cache) 32 kilobytes of data cache (D-cache) 256 KB L2 cache Eight-channel Generic DMA controller RTC with removable battery
Memory and storage	<ul style="list-style-type: none"> 256MB DDR 2, 400 MHz (Optional 512MB) 512 MB NAND Flash
LAN Switch	<ul style="list-style-type: none"> 6 Ports Giga LAN Layer 3 managed switch Marvell 88E6161 RGMII interface to CPU Non-blocking switch fabric, high-performance address lookup engine, and an embedded frame memory 5 integrated Giga PHYs Smart power management Virtual Cable Tester (VCT™) technology enables LAN cable diagnostics All ports supporting MDIIX
I/O Ports	<ul style="list-style-type: none"> Two USB 2.0 port supporting 0.5A loads. Overload protected. Type-A receptacles 5 x Giga LAN ports supporting 1000 Base-T, 100 Base-T, 10 Base-T. Shielded RJ-45 connectors with optional built-in LEDs 1 x LAN port can be assigned as DMZ port 1 x Independent WAN port using Marvell 88E1118R Gbit PHY 1 x Console port RJ-45 connector 1 x Optional serial DB-9 COM port connector 1 x Optional SATA port 1 x Optional internal JTAG connector 3 x Optional RP-SMA connectors for WLAN antennas 1 x Optional internal Mini PCI express slot (for wireless LAN module or other uses) 1 x Power supply DC jack
LEDs	<ul style="list-style-type: none"> 6 x Front panel Act / Link bi-colour LEDs 6 x Front panel Link / Speed bi-colour LEDs 1 x Front panel programmable Power Green / Fail red bi-colour LED 1 x Front panel programmable USB Green LED 1 x Front panel programmable WAN Green LED 1 x Front panel programmable Serial Green LED 1 x Front panel programmable Optional Green / Red bi-colour LED 6 x Optional Link bi-colour Green/Yellow LED integrated in LAN jacks 6 x Optional Link-Activity Green LED integrated in LAN jacks
Switches	<ul style="list-style-type: none"> Recessed software defined Reset push-button Recessed software defined Restore Factory Defaults push button

Software Support	<ul style="list-style-type: none"> ▪ UBOOT Boot-loader ▪ Linux 2.6.23 ▪ Developer's SDK available ▪ Custom image, MAC address, Unique ID may be loaded during production at cost
Regulatory Compliance	<ul style="list-style-type: none"> ▪ Safety: UL/cUL60950,EN60 950 ▪ EMI/EMC: FCC Part 15 Class B, CE Mark, EN55022B, VCCI , TUV ▪ ROHS
Enclosure	<ul style="list-style-type: none"> ▪ Zinc plated steel, 1/3U height ▪ Lexan front panel ▪ Blue painting. Other colours and printed logos available at special orders.
Warranty	<ul style="list-style-type: none"> ▪ 1 year standard. See applicable limited warranty terms and conditions. ▪ Extended warranty available at cost
Physical Characteristics	<ul style="list-style-type: none"> ▪ Dimensions: 200(W)x20(H)x130(D)mm / 7.87(W)x0.78(H)x5.11(D) inch ▪ Product weight: 600 gr (21 oz) ▪ Packaged product weight: 1 kg (2.2 lbs)
Environmental	<ul style="list-style-type: none"> ▪ Temperature range: Operating 0°C to 40°C (32°F to 104°F); Storage - -25°C to 70°C (-13°F to 158°F) ▪ Humidity: 5% to 95% non condensing
Power Supply	<ul style="list-style-type: none"> ▪ Wall mounted high efficiency power supply included ▪ Power input: 90-240VAC, 50-60 Hz ▪ Power output: 12VDC 2A ▪ Automatic resettable fuse short circuit protected ▪ US mains plug or EU mains plug ▪ Average power consumption 8W, Maximum 15W.
Accessories	<ul style="list-style-type: none"> ▪ CAT 6 1.8 m LAN Cable included ▪ RJ-45 to DB-9 console cable included

- Specifications are subjected to change without prior notice
- Multiple patents pending



Optional IEEE 802.11n Wireless LAN with 3 antennas