Server U

We are proud supporters of open source software, with over than 10 years experience. We strongly agree with A. Kay, who used to be quoted by Steve Jobs stating that "People who are really serious about software should make their own hardware."

Therefore, ServerU is open source software designed, tested and supported hardware. Because we are serious about software.

Server U

Rack-mount servers
designed for BSD and Linux systems

DESIGNED FOR FreeBSD
DESIGNED FOR PBI apps FreeBSD Enterprise Appliances
DESIGNED FOR GNU / Linux
DESIGNED FOR pfSense

We are ServerU

We make Server hardware for open source flavors of Unix-like systems.

ServerU is a joint effort from an open source specialists company with more than 10 years expertise, and ServerU itself, a US subsidiary based on Miami, FL.

We focus on designing and making rack-mount 1U professional servers completely supported by open source *Unix-like* systems.

We make hardware supported for FreeBSD, OpenBSD & Linux. We also focus on BSD and Linux based appliance solutions, like ProApps, pfSense, Vyatta, Endian.

It's a known FACT that most networking server vendors like HP, IBM and DELL won't support open source systems other than a couple of Enterprise Linux flavors. Therefore we designed, assembled, tested, certified, and we DO support ServerU enterprise servers for most BSD and Linux systems.

The story beyond ServerU is motivated on ProApps, Enterprise Professional Appliance made on top of FreeBSD operating system. Aiming to deliver a complete solution made up of ProApps and a hardware specially designed for it, we made and have been serving since 2012 a number of ProApps customers with ServerU hardware.

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ServerU Netmap L-100

ServerU Netmap L-100 is a perfect 1U network appliance for medium-sized companies and organizations. It's powered with 6 Intel Gigabit LAN with independent RX and TX multithread queues, MSI-X supported and ready prepared for Netmap high performance packet processing.

With up to 4GB RAM and 2 embedded Intel processors core or 4 vcores with Intel SMT support, it's suitable for up to 1.6Gbit/s aggregated throughput.

KEY FEATURES

- Hand picked chipset 6 Intel Gigabit
- Netmap ready (FreeBSD & pfSense)
- Mini PCI Express expansion slot
- 2 bypass segments (fail-safe mode)

PERFECT FOR

- BGP & OSPF Routing
- Firewall & Security Appliances
- Intrusion Detection Systems
- WAF (Web Application Firewall)

TECHNICAL OVERVIEW
Here is a summary description for ServerU Netmap L-100

Business Size:	For SMB (small & medium) & medium-to-big business. Exceeds typical SOHO
Recommended use:	BGPv4 Routing, OSPF Routing, Firewall, IDS/IPS, Web Application Firewall, Web Proxy & Web Content Filtering, Web Hosting, Small Mail Gateway
Designed & tested for:	ProApps, FreeBSD, pfSense, OpenBSD, Linux, Vyatta, Endian & Mikrotik (no Windows)
Certifications:	FCC Class A, UL, RoHS, CE Emission
Processor:	Intel® 1.80Ghz Dual Core Embedded with SMT capability
Chipset:	Intel® ICH8M
Memory Technology:	1x 4GB DDR3 on 204P SO-DIMM socket
Network Interfaces:	6x Intel Gigabit 82574L (netmap ready)
Network Features:	2 bypass segments, WDT, RTC, MSI-X, RX/TX CPU Affinity
Physical I/O:	4-key Pad & 2-line LCM Display (fully scriptable yeah!)
Recommended use:	AMI BIOS, 16Mbit SPI Flash ROM

Designed with security in mind:

Defense in Depth:	Perfect for Bastion Host & Additional Standalone Check Point
Diversity of Defense:	FreeBSD, Linux or OpenBSD; ProApps, pfSense or Mikrotik
Fail Safe:	3rd generation Intel Bypass technology (power or system failure)

ServerU Netmap L-800

ServerU Netmap L-800 is our best offer for an embedded network-centric appliance at High End class. This device was specially designed for mission-critical high-performance and high-availability operations on big and medium business.

Powered by default with 6 Intel Gigabit Server network cards – igb(4) device – with multiple multithreaded and independent queues, MSI-X interrupt control and ready for Netmap technology which provides high performance packet capturing and processing.

With up to 16GB RAM (4GB default) and 8 Intel High End embedded processors (or 16 scores with Intel SMT enabled), it's a networking server suitable for up to 5.6Gbit/s and 2.7Mpps aggregate throughput.

TECHNICAL OVERVIEW
Here is a summary description for ServerU Netmap L-800

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Business Size:	For big and medium sized business
Recommended use:	BGPv4 & OSPF Routing, Stateful Firewall, IDS/IPS, WAF CDN, Caching Proxy, Web Proxy, Web Content Filtering, Web Hosting, E-mail Server, SMTP Firewall and VPN
Designed & tested for:	ProApps, FreeBSD, pfSense, OpenBSD, Linux, Vyatta, Endian & Mikrotik (no Windows)
Certifications:	FCC Class A, UL, RoHS, CE Emission, ANATEL
Processor:	Intel® C2758 "Rangeley" 8x2.41Ghz (Octa Core) Embedded
Chipset:	Intel® "Rangeley" w/ VT-x virtualization support
Memory Technology:	1x 4GB DDR3 on 240P DIMM socket (up to 16GB on 2x240P)
Network Interfaces:	6x Intel Gigabit server ports w/ 2x Intel i210AT chipset and 4x Intel 88E1543 chipset - igb(4) driver (netmap ready)
Network Features:	All 3 segments with full 3rd generation bypass support; WDT, RTC, MSI-X, CPU Affinity w/ 4 and 8 threads per port
Physical I/O:	4-key Pad & 2-line LCM Display (fully scriptable yeah!)
BIOS:	AMI BIOS, 16Mbit SPI Flash ROM

KEY FEATURES

- 6 NICs w/ Intel igb(4) driver w/ bypass
- Hand-picked server chipsets
- Netmap Ready (FreeBSD & pfSense)
- Up to 14 Gigabit expansion ports
- Up to 2x10GbE SFP+ expansion

PERFECT FOR

- BGP & OSPF routing
- Firewall & UTM Security Appliances
- Intrusion Detection & WAF
- CDN & Web Cache / Proxy
- E-mail Server & SMTP Filtering

Designed with security in mind:

Defense in Depth:	Perfect for bastion Host, Tier-1, Tier-2 and Tier-3 perimeter control
Diversity of Defense:	FreeBSD, Linux or OpenBSD; ProApps, pfSense or Mikrotik
Fail Safe:	3rd generation Intel Bypass technology (power or system failure)

Expansion Options for L-800

With a 3rd Generation PCIe x8 NIC expansion slot w/ high bandwidth bus, ServerU Netmap L-800 can be grown in performance, bandwidth and perimeter ports according to your needs.

These front-facing and easily swapped modules allow for a safe and guaranteed expansion for NICs of type RJ-45 copper, fiber, bypass and speeds from 1Gbps to 10Gbps (SFP, SFP+ and Copper).
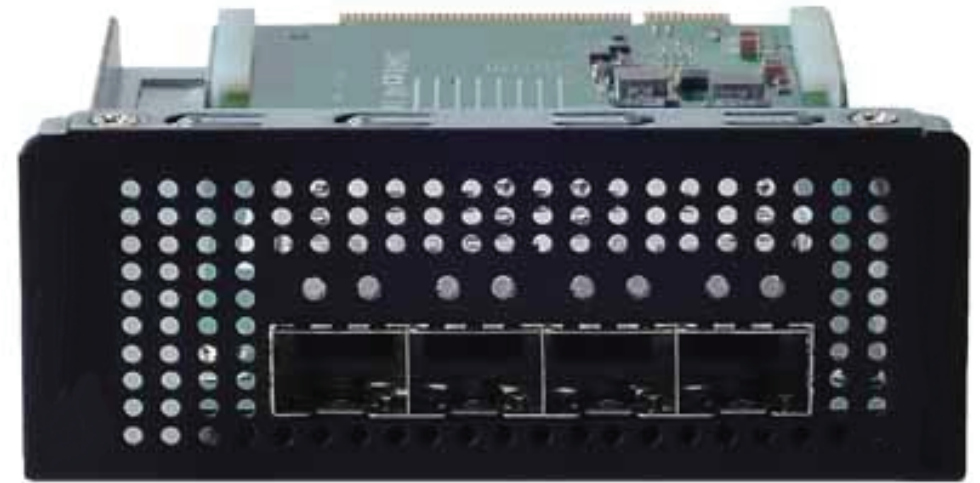
1Gbit/s Copper	Ports	Chipset	Bypass
L800-G808-1	8x Gbe RJ-45 ports	8x Intel i210 AT; PEX8618	4 pairs G3
L800-G808-2	8x Gbe RJ-45 ports	8x Intel i210 AT; PEX8618	N/A
L800-G428-1	4x Gbe RJ-45 ports	1x Intel i350 AM4	2 pairs G3
L800-G428-2	4x Gbe RJ-45 ports	1x Intel i350 AM4	N/A
1Gbit/s SFP (Fiber)	**Ports**	**Chipset**	**Bypass**
L800-S406-1	4x Gbe SFP ports	i350-AM4	N/A
10GbE Copper	**Ports**	**Chipset**	**Bypass**
L800-T202-1	2x 10Gbe RJ-45 ports	Intel X540	N/A
L800-T203-1	2x 10Gbe RJ-45 ports	Intel X540	1 pair G3
10GbE SFP+ (Fiber)	**Ports**	**Chipset**	**Bypass**
L800-X204-1	2x 10Gbe SFP+	Intel 82599ES	N/A
L800-X205-1	2x 10Gbe SFP+	Intel 82599ES	10G Fiber
L800-X405-1	4x 10Gbe SFP+	Intel 82599ES; PEX8724	N/A