

Embedded Systems for Open-Source Applications

Featured Products

1. [Mercury V C2558 OpenBrick-M Firewall](#) [1]. 2.4Ghz Intel® Atom C2558 4C/4T with AES-NI and Intel Quickassist. Four (4) built-in Intel i354 Gigabit Ethernet. 8GB DDR3 RAM (maximum 32GB). SATA DOM/SSD/HDD firmware storage. SFF (Small Form Factor) dimension: 7.6" x 8.3" x 2.5".
2. [Mercury V C2750/C2758 1U Server Firewall](#) [2]. 2.4Ghz Intel Atom C2750/C2758 8C/8T with AES-NI and Intel Quickassist (C2758 only). Four (4) built-in Intel i354 Gigabit Ethernet. 1 x PCI-E 2.0 x8 expansion. 8GB DDR3 RAM (maximum 32GB). SATA DOM/SSD/HDD firmware storage. Short-depth case dimension: 19" x 1.75" x 9.84".
3. [Mars IV 1U Server Firewall](#) [3]. 3.6Ghz Intel Core i7-7700 4C/8T. Two (2) Intel Gigabit Ethernet. 1 x PCI-E 3.0 x16 expansion. 4GB DDR4 RAM (maximum 32GB). SATA DOM/M.2/SSD/HDD firmware storage. 1U short-depth case dimension: 19" x 1.75" x 9.84".
4. [Jupiter V Xeon D-1557 1U Server Firewall](#) [4]. 1.5Ghz Intel Xeon D-1557 12C/24T. Two (2) built-in Intel i350-AM2 Gigabit Ethernet and two (2) Intel X550 10 Gigabit Ethernet. 1 x PCI-E 3.0 x16 expansion. 8GB DDR4 RAM (maximum 64GB). SATA DOM/M.2/SSD/HDD firmware storage. Short-depth case dimension: 19" x 1.75" x 9.84".
5. [Mercury V C2758/C2750 Redundancy Firewall 1U Server](#) [5]. Two complete and independent [Mercury V systems](#) [2] in one 1U chassis. Each system is a blade server that has a 2.4Ghz Intel Atom C2750/C2758 8C/8T with AES-NI and Intel Quickassist (C2758 only). Four (4) built-in Intel i354 Gigabit Ethernet. 8GB DDR3 RAM (maximum 32GB).
6. [Jupiter V Xeon D1557 Redundancy Firewall 1U Server](#) [6]. **Two complete and independent Jupiter V systems [4] in one 1U chassis.** Each system is a blade server that has a 1.5Ghz Intel Xeon D1557 12C/24T with AES-NI. Two (2) built-in Intel i350-AM2 Gigabit Ethernet and two (2) Intel X550 10 Gigabit Ethernet. 8GB DDR4 RAM (maximum 64GB).
7. [OpenBrick-M N2930 - Building an Application Server](#) [7]. The OpenBrick-M N2930 is a small form factor (SFF) desktop based on the Intel 1.83Ghz Celeron N2930 processor. The dimension is about 7.6 inch (W) x 8.3" (L) x 2.5" (H), weighs less than 6lbs and runs fanless in the base configuration. We will attempt to explain some of the expendable configurations and to suggest appropriate applications.
8. [Building an Intel C2750 1U Network Server](#) [8] - It demonstrates on how to build any mini-ITX systems, using the ASRock C2750D4I as an example, with Hacom 1U U server case with built-in Flex-ATX PSU, using the Universal I/O Shield.

Highlight of Some of Hacom's 2017 Firewall Products

Hacom's 2017 Firewall Products	Mercury V C2558 OpenBrick-M [1]	Mercury V C2758 1U Server [2]	Mars IV Core i7 1U Server [3]	Jupiter V Xeon D-1557 1U Server [4]
Network Location	Small Medium Business Corporate HQ	Small Medium Business Corporate HQ	Data Center	Data Center
Technical Summary				
CPU	Intel® Atom C2558 (4C/4T)	Intel® Atom C2758/C2750 (8C/8T)	Intel® Core i7-7700 (4C/8T)	Intel® Xeon D-1557 (12C/24T)
Memory	8GB	8GB	4GB	8GB



	(Maximum 32GB)	(Maximum 32GB)	(Maximum 32GB)	(Maximum 64GB)
Storage	8GB DOM (optional 2.5inch HD/SSD)	8GB DOM (optional 2.5inch HD/SSD)	8GB DOM (optional 2.5inch HD/SSD)	8GB DOM (optional 2.5inch HD/SSD)
Interfaces	- Four (4) Intel i354 Gigabit Ethernet	- Four (4) Intel i354 Gigabit Ethernet - PCI-E 2.0 x8 Expansion	- Two Ports: 1 x Intel i219V and 1 x i211V Gigabit Ethernet - PCI-E 3.0 x16 Expansion	- Two Gigabit Ethernet: 2 x Intel i350-MA2 - Two 10 Gigabit Ethernet: 2 x X550 LAN or SPF+ - PCI-E 3.0 x16 Expansion
Performance (CPU Mark)	2196	- 3162 (C2758) - 3800 (C2750)	10,873	~14,000
Hardware Encryption Engine	AES-NI, Quickassist	AES-NI, Quickassist	AES-NI	AES-NI
Power Consumption	25W	45W	100W	60W
Base Price	\$700	\$950	\$1,500 (With 6 x Intel Gigabit Ethernet Ports)	\$2,500

Overview

For over 14 years, Hacom has been supporting the open-source community with high quality computing hardware to build networking appliances, as well as security and multimedia applications.

One of our unique features of hardware has been very small-footprint cases with ability of the systems to boot directly from an on-board compact flash memory. Except for the [1u rackmount systems](#) [9] and [the OpenBrick-M systems](#) [10], they are all designed to operate fanlessly, suited for embedded and network applications. They have become the best choice for open-source network applications, i.e. [pfSense®](#) [11], [IPCop](#) [12].

We are a [Debian Gnu/Linux](#) [13] shop. Our Linux expertises have assisted companies to build embedded applications on our hardware platforms.

Hacom has also been providing custom engineered and built computer systems and networking solutions for some of the most demanding Original Equipment Manufacturers (OEMs), Independent Software Vendors (ISVs), large enterprises and small to medium-size businesses everywhere. Their applications range from Linux-based medical devices to innovative researches in networking as well as control and automation applications.

Source URL: <https://www.hacom.net/home>

Links

- [1] <https://www.hacom.net/catalog/mercury-v-c2558-openbrick-m-firewall>
- [2] <https://www.hacom.net/catalog/mercury-v-c2758-1u-server-firewall>
- [3] <https://www.hacom.net/catalog/mars-iv-1u-server-firewall>
- [4] <https://www.hacom.net/catalog/jupiter-v-xeon-d-1557-1u-server-firewall>
- [5] <https://www.hacom.net/catalog/mercury-v-c2758-twin-blade-1u-server-firewall>
- [6] <https://www.hacom.net/catalog/jupiter-v-xeon-d1557-twin-blade-1u-server-firewall>
- [7] <https://www.hacom.net/catalog/openbrick-m-n2930-building-application-server>
- [8] <https://www.hacom.net/catalog/building-intel-c2750-1u-network-server>



[9] <https://www.hacom.net/catalog/rackmount-systems>

[10] <https://www.hacom.net/catalog/openbrick-m>

[11] <http://www.pfsense.org>

[12] <http://www.ipcop.org>

[13] <http://www.debian.org>