

## LF1012 High-End 2U Multi-Core Rackmount system

The LF1012 is a high-end server chassis capable of sustaining multiple gigabits of ethernet traffic and a large number of VOIP and other high-intensity processes. With one quad-core processor it can handle thousands of concurrent connections, and it's 12GB of RAM allows thousands of processes and large buffers for WAN latency emulation. To take advantage of the hardware, a 64-bit Fedora Linux distribution is installed.

The specific feature set and capacity is constrained by the software licenses purchased. The hardware can support 500+ concurrent VOIP calls, 24 Gbps of UDP traffic tx + rx between two 10G ports, or 28+ 1G ports running at near line speed.

The system seats seven front-facing low-profile PCIe cards, allowing for a wide number of combinations including 7 ath9k or ath10k radio cards with front facing antennas.

For additional capacity, multiple LF1012 units can be clustered together.

The LF1012 2U rackmount chassis fits into a standard rack and is about 14 inches deep. It supports standard VGA, Keyboard, and Mouse interfaces for easy console/desktop access to the system. The rackmount chassis is relatively noisy, so it is better for a data center deployment than a desktop environment. Other form factors better suited for traveling or desktop use are also available.



NOTE: This product may have a different hardware configuration than the system pictured above.  
Refer to your official quote for details.

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## Hardware Specification

1. High-End Intel Multi-Core 2U rackmount server.
2. Operating System: Fedora Linux with customized Linux kernel.
3. Up to 28 10/100/1000 Ethernet ports on PCIe bus. Additional interface for management.
4. High-availability Ethernet hardware bypass option available.
5. Quad-Core Intel processor.
6. 7 PCIe low profile slots.
7. Optional NICs include: 4-port 10/100/1000 copper, 2-port 10/100/1000 copper, 2-port 1Gbps fibre, 2-port 10Gbps fibre, 2-port 10Gbps copper (CX4), 802.11a/b/g/n WiFi NIC, 802.11a/b/g/n/AC WiFi NIC.
8. 16 GB or more RAM.
9. 120 GB or larger SSD Hard Drive.
10. Weight: 20.4 lbs or 9.3 kg.
11. Dimensions: 17 x 18 x 3 inches (18-inch deep standard 2U rackmount server) Metric: 432 x 457 x 76 mm.
12. 520W power supply w/PFC, 100 - 240 VAC, 50 - 60 Hz, 7 - 3 Amps
13. Estimated Power Usage: 2.1 Amps @ 120 VAC under load, 1.4 Amps idle.
14. ROHS compliant.

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## Additional Feature Upgrades

Unless otherwise noted in the product description, these features usually cost extra:

- WanPaths (LANforge-ICE feature set)
- Virtual Interfaces: MAC-VLANs, 802.1Q VLANs, WiFi stations, etc
- FIRE Connections: Base FIRE license includes 1000 active connections.
- LANforge-ICE Network Emulation.
- VOIP: Each concurrent call over the included package requires a license.
- VoIP-Mobile Audio Quality Testing using POLQA/PESQ.
- Mobile-Mobile Audio Quality Testing using POLQA/PESQ.
- Armageddon: Each pair of ports requires a license if not already included.
- RF Chambers for WiFi testing.
- External battery pack: 12+ hours for CT520, CT523, CT92X and other platforms.

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