CT932 LANforge-ICE 155 Mbps Desktop WAN Emulator

The CT932 is an excellent choice for a desktop or portable network emulator supporting speeds up to 155 Mbps (bi-directional). The CT932 is good for mobile work and desktop environments where a loud rackmount system is not desirable. It supports standard VGA, Keyboard, and Mouse interfaces for easy console/desktop access to the system. The CT932 hardware can support up to 3 simultaneous WAN emulations. Contact your sales representative if you prefer more than a single WAN emulation or LANforge-FIRE traffic generation feature sets. No additional hardware or software is required, but you may wish to manage the system using the LANforge-GUI on a separate machine.
Example Network Diagram
Quick Start Guide

1. Connect Management ethernet port to Management network or management PC. If connecting directly to a PC, an ethernet cross-over cable should be used. Or, connect VGA, Keyboard, and Mouse to the chassis and manage it locally.

2. Connect Client to one WAN emulation port and Server to the other. The two interfaces will be bridged and this bridge will inject the network emulation.

3. Connect power plug to a standard US or European AC power source.

4. If managing remotely, install the LANforge-GUI on a separate management PC or Laptop. Windows and Linux GUIs are supported: Select the correct one from the CDROM or Candela Technologies Download page and install it.

5. The CT932 should now boot. If DHCP is enabled on the Management network, the CT932 will automatically acquire an IP address. If DHCP is not available, the IP address will be set to 192.168.1.101 by the LANforge scripts.

6. Start the LANforge-GUI on the management PC, or the CT932 server if managing locally, and click the 'Discover' button. It should find the CT932 appliance and add the IP address to the drop-down box in the Connect widget. Press 'Connect' and you will be connected to the CT932.

7. Select the WanLinks tab in the GUI. One of the pre-configured tests should already be running. You may double-click the row in the top section to modify the configuration. You can also view a real-time report of the test with the 'Display' button. Any modifications take place immediately after you click 'Submit'.
**WanLink Display**

Logged in to: 192.168.100.138:4002 as: Admin

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<th>Rx Peks</th>
<th>Tx Rate</th>
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<th>Tx-Failed</th>
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Create/Modify WanLink Window
Software Features

1. General purpose WAN and Network impairment emulator.
2. Able to simulate DS1, DS3, OC3, DSL, CableModem, Satellite links and other rate-limited networks, from 10bps up to 155 Mbps (full duplex).
4. Supports Packet corruptions, including bit-flips, bit-transposes and byte-overwrites.

5. Supports WanPath feature to allow configuration of specific behavior between different IP subnets, MAC addresses or other packet filters using a single pair of physical interfaces. WanPath support may require purchase of additional WanPath licenses, please ask your sales contact for more information.

6. Supports routed and bridged mode for more flexibility in how you configure your network and LANforge-ICE.

7. Supports WAN emulation across virtual 802.1Q VLAN interfaces more efficient use of limited physical network interfaces.

8. Supports 'WAN-Playback' allowing one to capture the characteristics of a live WAN and later have LANforge-ICE emulate those captured characteristics. The playback file is in XML format, and can be easily created by hand or with scripts. The free LANforge-ICEcap tool can be used to probe networks and automatically create the XML playback file.

9. Allows packet sniffing and network protocol decoding with the integrated Wireshark protocol sniffer.

10. Includes comprehensive management information detailing all aspects of the LANforge system including processor statistics, test cases, and Ethernet port statistics.

11. GUI runs as Java application on Linux, Solaris and Microsoft Operating Systems (among others).

12. GUI can run remotely, even over low-bandwidth links to accommodate the needs of the users.

13. Central management application can manage multiple units, tests, and testers simultaneously.

14. Includes easy built-in scripting to automatically iterate through bandwidth, latency and other settings. Advanced programatic scripting over a TCP socket also supported and example perl libraries and scripts are included.

15. Automatic discovery of LANforge resources simplifies maintenance and configuration of LANforge test equipment.

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**Hardware Specification**

1. High-End i7 M-620 desktop server.

2. Hardware supports a max of about 9Gbps transmit and receive (18Gbps across backplane.)


4. Up to 6 PCIe Intel Pro/1000 10/100/1000 Ethernet ports. Additional 10/100/1000 Ethernet interface for management.

5. High-availability Ethernet hardware bypass option available.

6. 2-port 10G fiber or copper CX4 option available

7. Second x1 PCIe slot can hold 802.11q/b/g/n WiFi NIC.

8. Intel i7 M-620 2.66 GHz processor.

9. One PCIe x8 (x16 physical) slot.

10. 8 GB RAM.

11. 40 GB or larger Hard Drive or Solid State Drive.

12. External power brick supports Standard US or European power.

13. Weight: 15 lbs or 6.8 kg.


15. ROHS compliant.

List Price: $8,080  List Price with 1 Year support (17%): $9,453

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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
- LANforge FIRE traffic generation.
- VOIP: Each concurrent call over the included package requires a license.
- Armageddon: Each pair of ports requires a license if not already included.
- External battery pack: 12+ hours for CT521, CT523, CT919, CT92X platforms. Ask for others.