Candela
T E C H N O L O G I E S

Network Testing and Emulation Solutions

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LANforge System Prices

- **LANforge ICE Network Impairment Emulators**
- **LANforge FIRE Stateful Traffic Generators**
- **LANforge WiFIRE WiFi Network Traffic Generators**
- **WiFi Chambers, Attenuators and Accessories**

- LANforge Part Details

NOTE: Prices do NOT include the optional 1 year of support unless otherwise specified. Some jurisdictions may require systems purchased to include 1 year of support, which will increase the base price by 17% accordingly.

LANforge WiFIRE WiFi Traffic Generators

See some Example WiFi Reports supported by LANforge.

Product	Description	PDF	Price
Dual-Radio 802.11a/b/g/n/ac/AX WiFi: **CT521a-2ax4**	Simulate up to 38 802.11a/b/g/n/ac/AX 4x4 MIMO Wireless Stations in one small system. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks. This is a low powered system with a maximum throughput of around 350Mbps. For higher-performing systems, see the CT522 or higher series.		$10,500
Dual-Radio 802.11a/b/g/n/ac/AX WiFi: **CT521b-2ax4**	Simulate up to 38 802.11a/b/g/n/ac/AX 4x4 MIMO Wireless Stations in one small system. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks. This is a low powered system with a maximum throughput of around 1Gbps. For higher-performing systems, see the CT522 or higher series.		$11,000
Dual-Radio 802.11a/b/g/n/ac WiFi: **CT521a-264-1ac-1n**	Simulate up to 200 802.11a/b/g/n and 64 a/b/g/n/AC Wireless Stations in one small system. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks. This is a low powered system with a maximum throughput of around 300Mbps. For higher-performing systems, see the CT522 or higher series.		$7,500
Dual-Radio 802.11a/b/g/n/AC/AX WiFi: **CT521a-1ac-1ax**	Supports 1 /a/b/g/n/AC/AX (WiFi 6) 2x2 station and up to 64 a/b/g/n/AC Wireless Stations in one small system. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks. This is a low powered system with a maximum throughput of around 300Mbps. For higher-performing systems, see the CT522 or higher series.		$7,500

2-Radio 802.11a/b/g/n/AC WiFi: **CT522-264-1ac2-1n**	Simulate up to 200 802.11a/b/g/n and 64 /a/n/AC Wireless Stations in one small system. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks.	PDF PDF	$23,850
2-Radio 802.11a/b/g/n/ac 4x4 MU-MIMO WiFi with 10G-rj45: **CT523c-2ac2-db-10g-cu**	Simulate up to 128 802.11ac 4x4 MIMO Wireless Stations in one quiet system. One radio is 5Ghz only, one is 2.4Ghz only. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks, and a good building block for a TR-398 test bed. Supports two MU-MIMO virtual stations. Includes dual-port 1/2.5/5/10G copper rj45 NIC. Other configurations are available.	PDF PDF	$32,545
6-Radio 802.11a/b/g/n/ac 4x4 MU-MIMO WiFi with 10G-rj45: **CT523c-3ac2-db-10g-cu**	Simulate up to 384 802.11ac 4x4 MIMO Wireless Stations in one quiet system. Three radios are 5Ghz only, three are 2.4Ghz only. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks, and a good building block for a TR-398 test bed. Supports siz MU-MIMO virtual stations (3 on each band). Includes dual-port 1/2.5/5/10G copper rj45 NIC. Other configurations are available.	PDF PDF	$56,300
6-Radio 802.11a/b/g/n/ac/AX 4x4 WiFi with 10G-rj45: **CT523c-6ax4-10g-cu**	Simulate up to 114 802.11ax 4x4 Wireless Stations in one quiet system. The six radios are 2.4/5G dual-band. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks, and a good building block for a TR-398 issue 2 test bed. Supports six OFDMA stations. Includes dual-port 1/2.5/5/10G copper rj45 NIC. Other configurations are available.	PDF PDF	$53,375
24-Radio 802.11a/b/g/n/ac/AX 6E 2x2 WiFi plus 10G-rj45: **CT523c-24axe2-mtk-10g-cu**	Simulate up to 96 802.11ax 2x2 Wireless Stations in one quiet system. The six radios are 2.4/5/6G tri-band. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks. Supports 24 OFDMA stations. Uses MTK7921k chipset radios with internal 4-1 splitter/combiners to keep number of SMA ports on the faceplates manageable. Includes dual-port 1/2.5/5/10G copper rj45 NIC. Other configurations are available.	PDF PDF	$70,400
16-Radio 802.11a/b/g/n/ac/AX/BE 2x2 WiFi-7 plus 10G-rj45: **CT523c-16w7i-10g-cu**	Supports up to 16 2x2 WiFi-7 Stations in one quiet system. Each radio is tri-band 2.4/5g/6g. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks. Supports 16 OFDMA stations (one per radio). Uses Intel be200 radios with internal 4-1 splitter/combiners to keep number of SMA ports on the faceplates manageable. Other configurations are available.	PDF PDF	$66,400
	Supports up to 10 802.11ax (wifi 6E) 2x2 OFDMA		

Product	Description		Price
10-Radio 802.11a/b/g/n/ac/AX 6E MU-MIMO and OFDMA WiFi with 10G-rj45: **CT523c-8axe-ac2-10g-cu**	Wireless Stations in one quiet system. An additional 2.4 and 5Ghz wifi-5 wave-2 radios can support 64 additional stations each.. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks. Supports 8 MU-MIMO and OFDMA virtual stations using Intel ax210 chipset radios. Includes dual-port 1/2.5/5/10G copper rj45 NIC. Other configurations are available.		$54,795
3-Radio 802.11a/b/g/n/ac 4x4 MU-MIMO WiFi with 10G: **CT523c-192-2ac2-1ac-10g**	Simulate up to 128 802.11ac 4x4 MIMO and 64 802.11ac 3x3 MIMO Wireless Stations in one quiet system. The 4x4 radios only work on 5Ghz, but the 3x3 radio can work on both 2.4 and 5Ghz bands. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks. Supports two MU-MIMO virtual stations. Includes dual-port 10G NIC. Other configurations are available.		$39,825
2U WiFIRE 802.11a/b/g/n Six Radio Wireless Station Emulator: **CT525-1200-6n**	Simulate up to 1200 802.11a/b/g/n Wireless Stations in one 2U system. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks.		$46,985
2U WiFIRE 802.11b/g/ac Six Radio Wireless Station Emulator: **CT525-384-6ac**	Simulate up to 384 802.11b/g/ac Wireless Stations in one 2U system. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks.		$61,995
2U WiFIRE 802.11ac/a/b/g/n Six Radio Wireless Station Emulator: **CT525-792-3ac-3n**	Simulate up to 600 802.11a/b/g/n and 192 /ac Wireless Stations in one 2U system. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks.		$53,995
Other combinations of 2U WiFIRE 802.11ac/a/b/g/n Six Radio Wireless Station Emulator			
CT525-128-2ac			$29,240
CT525-328-2ac-1n			$35,945
CT525-392-3ac-1n			$43,195
CT525-656-4ac-2n			$56,295
CT525-928-2ac-4n			$51,645
Seven-Radio	Simulate up to 1128 802.11a/b/g/n/ac MIMO Wireless Stations in one small system. Also includes 4-port		

Product	Description	PDF	Price
802.11a/b/g/n/ac 3x3 MIMO WiFi: **CT526-1128-2ac-5n-ef**	1Gbps copper, and 4-port 1Gbps Fiber ethernet NIC. Different NIC combinations are supported. Each radio can be configured independently, and each Virtual Station has its own IP address, IP port space, MAC address and routing table. Excellent for testing Access Points and other WiFi networks.		$66,640

WiFi Chambers, Attenuators and Accessories

Please see the RF Chambers Comparison and Spec Sheet for details on all of our RF chamber offerings.

Product	Description	PDF	Price
Small RF Chamber: **CT810a**	Smaller sized affordable RF Chamber for various WiFi and RF testing scenarios. Comes with a full set of interfaces and may be further customized for customer's needs.		$3,995
Medium RF Chamber: **CT820a**	Medium sized affordable RF Chamber for various WiFi and RF testing scenarios. Comes with a full set of interfaces and may be further customized for customer's needs.		$4,995
Medium RF Chamber with Antenna Supports: **CT822a**	Medium sized high quality RF Chamber with antenna supports. Useful for various WiFi and RF testing scenarios. Comes with a full set of interfaces and may be further customized for customer's needs.		$8,995
14RU 80db isolation RF Chamber: **CT825a-14ru**	14RU 80db isolation rack-mount RF Chamber. Useful for various WiFi and RF testing scenarios. Comes with a full set of interfaces and may be further customized for customer's needs.		$7,000
Large RF Chamber with Antenna Supports: **CT827ai**	Large RF Chamber with antenna supports. Useful for various WiFi and RF testing scenarios. Comes with a full set of interfaces and may be further customized for customer's needs.		$11,000
Large RF Chamber with Shelves: **CT837a**	Large RF Chamber with internal shelves. Useful for holding lots of WiFi devices. Comes with a full set of interfaces and may be further customized for customer&squot;s needs.		$13,995
Large 2D turntable RF Chamber: **CT840a**	Large RF Chamber with 2D turntable and 85+ db of isolation, good for TR-398 automated testing and other WiFi and RF testing scenarios. Comes with a full set of interfaces and may be further customized for customer's needs.		$21,000
High Isolation Medium stackable RF Chamber: **CT823b**	Medium RF Chamber 90+ db of isolation with filters in use, good for TR-398 automated testing and other WiFi and RF testing scenarios. Aluminum construction for long life. Comes with a full set of interfaces and may be further customized for customer's needs. May be stacked with other 'b' Chambers.		$26,000
High Isolation Large stackable RF Chamber: **CT830b**	Large RF Chamber 90+ db of isolation with filters in use, good for TR-398 automated testing and other WiFi and RF testing scenarios. Aluminum construction for long life. Comes with a full set of interfaces and may be further customized for customer's needs. May be stacked with other 'b' Chambers.		$32,000

Product	Description	PDF	Price
High Isolation Large 2D turntable RF Chamber: **CT840b**	Large RF Chamber with 2D turntable and 90+ db of isolation with filters in use, good for TR-398 automated testing and other WiFi and RF testing scenarios. Aluminum construction for long life. Comes with a full set of interfaces and may be further customized for customer's needs.		$45,000
RF Attenuator: **CT703b**	Frequency: 300MHz-6GHz. Add 0-95.5dB attenuation in 0.5dB steps. Supports 3 connections (6 connectors, 3 in, 3 out). Can be controlled by software or by manually turning knobs on the faceplate.		$5,495
RF Attenuator: **CT704b**	Frequency: 300MHz-6GHz. Add 0-95.5dB attenuation in 0.5dB steps. Supports 4 connections (8 connectors, 4 in, 4 out). Can be controlled by software or by manually turning knobs on the faceplate.		$6,995
RF Attenuator: **CT714**	Frequency: 5MHz-6GHz. Add 0-95dB attenuation in 0.5dB steps. Supports 4 connections (8 connectors, 4 in, 4 out). Can be controlled by software only.		$4,995
RF Attenuator: **CT714b**	Frequency: 50MHz-8GHz. Add 0-95dB attenuation in 0.25dB steps. Supports 4 connections (8 connectors, 4 in, 4 out). Can be controlled by software only.		$5,995
RF RADAR Simulator: **CT712**	RADAR pulse Simulator and non-modulated RF Noise generator. Supports 2.4 and 5Ghz bands.		$1,995
SMA RF Cable Bundle: **CT540**	Used to cable LANforge WiFIRE radios to SMA connectors on the system under test. Includes semi-rigid cables, 30dB fixed attenuators and more.		$300

LANforge FIRE Traffic Generators

Product	Description	PDF	Price
Network in a Box: **CT502-1G**	Simulate up to 250 ethernet devices with unique MAC, IP Address and routing table over 6 physical ports with gigabit traffic generation. Excellent for testing routers and firewalls that monitor traffic flows. For low speed networks, consider the more affordable: CT502.		$12,250
Gigabit Generator: **CT503**	Generate and receive up to 8 Gbps of traffic with a single system. The CT503 is configured with 8 10/100/1000 Ethernet interfaces, and other options with more or fewer ports are available. This system is excellent for testing multi-port high-speed networks.		$16,295
CT503-10G	Generate and receive 10 Gbps of traffic with a single system. The CT503-10G is configured with two 10 Gigabit Fiber interfaces. Other options including portable systems and more ports are available. This system is excellent for testing multi-port high-speed networks. For even more capacity, consider the CT503-10G-4 system.		$15,155
10 Gig Combo Generator:	Generate and receive 12+ Gbps of traffic with a single system. The CT503-MIX is configured with two 10 Gigabit Fiber interfaces and 12 1Gbps SFP		

Product	Description	PDF	Price
CT503-MIX	interfaces. This system is designed to be a general purpose network traffic generator for high-speed networks.		$47,805
48-port Last-Mile Traffic Generator: **CT570**	Generate and receive up to 2 Gbps of traffic across 48 10/100 ethernet interfaces utilizing a single LANforge machine and a 48-port managed ethernet switch. This system is excellent for testing DSL, Cable Modem, and other networks with a large number of lower-speed network devices.		$31,900
File-IO Generator: **CT510-10G**	Generate up to 2000 unique NFS, CIFS and other File-IO sessions. Excellent for testing File Servers and network storage devices. for the individual calls.		$21,655
VoIP Call Generator: **CT505-30**	Generate up to 30 concurrent SIP calls with RTP. Excellent for testing SIP gateways, routers and QoS configurations. Includes optional PESQ module that provides automated perceptive quality scoring for the individual calls. See also: CT505-100. Systems supporting up to 500 calls are also available.		$14,350

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LANforge ICE Network Impairment Emulators

Product	Description	PDF	Price
Appliance: **CT910**	One network appliance supporting 0-45 Mbps WAN emulation. A separate machine running the LANforge GUI manages the appliance.		$995 (Buy Now)
Appliance: **CT913**	One network appliance supporting 0-1Gbps WAN emulation. A separate machine running the LANforge GUI manages the appliance. This system has only modest CPU, see CT963 or CT964 for higher performing systems.		$4,995 (Buy Now)
Appliance: **CT920**	One network appliance supporting 0-45 Mbps WAN emulation. A separate machine running the LANforge GUI manages the appliance.		$2,995 (Buy Now)
CT922	One network appliance supporting 0-155 Mbps WAN emulation. A separate machine running the LANforge GUI manages the appliance.		$4,190
Appliance: **CT934**	High-end, small, silent system supporting 0-1 Gbps WAN emulation that is managed locally or with a separate machine. (10G, GigE Fibre interface available.)		$7,995
Midrange Rackmount: **CT962**	A 1U rackmount appliance supporting 0-155 Mbps WAN emulation that is managed locally or with a separate machine.		$5,120
Gigabit Rackmount: **CT963**	A 1U rackmount appliance supporting 0-1 Gbps WAN emulation that is managed locally or with a separate machine. (GigE Fibre interface available.)		$7,995
Gigabit Rackmount:	A 1U 64-bit rackmount appliance supporting 0-1 Gbps WAN emulation that is managed locally or with a separate machine. 16 GB RAM included to		

CT964	support higher 10+ second latencies. (GigE Fibre interface available.)		$9,290
10 Gigabit: **CT966**	A 1U 64-bit rackmount appliance supporting 0-9.8 Gbps WAN emulation that is managed locally or with a separate machine. 12+ GB RAM included to support higher latencies. Dual port 10 Gigabit Fibre NIC installed. (10 GigE copper interfaces available.)		$12,995
10-WAN Emulator: **CT970-10**	A network appliance and one 24 port managed ethernet switch combined to support 10 unique WAN emulations. System is managed with a separate GUI machine. Great for testing online gaming with room for expansion.		$12,000
16-WAN Emulator: **CT970-16**	A network appliance and one 24 port managed ethernet switch combined to support 16 unique WAN emulations. System is managed with a separate GUI machine. Great for testing online gaming with additional ports for future growth.		$17,000
24-WAN Emulator: **CT970-24**	A 1U midrange rackmount appliance and one managed ethernet switch combined to support 24 unique WAN emulations. May be managed locally or with a separate machine. Great for testing online gaming!		$24,995
48-WAN Emulator: **CT970-48**	A 1U high-end rackmount appliance and one managed ethernet switch combined to support 48 unique WAN emulations. May be managed locally or with a separate machine. Great for testing MMOG and game testing in QA test houses!		$29,460