CT714c LANforge-Attenuator with 4 Attenuator Channels: 50 MHz - 8 GHz

The CT714c RF Attenuator is used to attenuate (decrease) the RF signal between wireless devices. The two SMA ports for a given channel are on opposite sides of the attenuator. This is helpful when mounting the attenuator on the side of RF Chamber stacks. A summary of the technical specifications is below:

Max RF Power: +28 dBm

Impedance: 50Ω

Frequency Range: 50 MHz - 8.0 GHz

Attenuation Range: 0 – 95 dB

Attenuation Steps: 0.25 dB increments

The CT714c may be controlled through software access over the USB-Serial port or Ethernet. The included LANforge software suite supports automated scripting as well as manual configuration of the attenuator modules.

The CT714c should be used with an RF enclosure to prevent the devices connected to the attenuator from bypassing the RF attenuator using over-the-air RF leakage.

The CT714c has no moving parts and will fit into a small travel bag or briefcase for easy portability.

The CT714c includes a USB Cable for both management and power supply. If powering many attenuators, a powered USB hub should be used. PoE Ethernet is also supported.

NOTE: This product may have a different hardware configuration than the system pictured above.

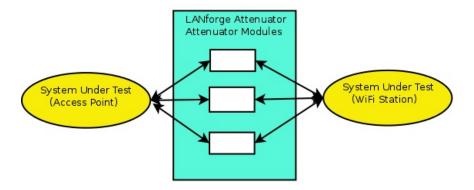
Refer to your official quote for details.

Candela Technologies Inc., 2417 Main Street, Suite 201, P.O. Box 3285, Ferndale, WA 98248, USA www.candelatech.com | sales@candelatech.com | +1 360 380 1618

Example Network Diagram



LANforge RF Attenuator.



The LANforge attenuator sits between two RF systems, often a WiFi AP on one side and WiFi Station on the other. The attenuator and WiFi stations are connected by shielded SMA-Male cables. Adjust the attenuation as desired either with the LANforge GUI or direct access over serial.

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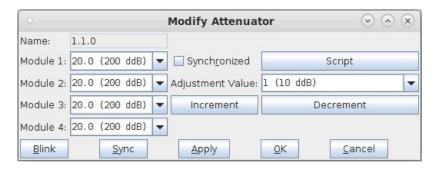
Quick Start Guide

- 1. Connect the CT714c to a Linux system running LANforge with the included USB cable. The USB cable allows control of the CT714c. The USB cable also provides power so no other power cable is required. PoE Ethernet connectivity may also be used.
- 2. Connect the attenuator pairs: One side to one system and the other side to another system or antennas.
- 3. Open a LANforge GUI and connect to the Linux system with the CT714c.
- 4. If using USB, the attenuator should be automatically discovered. If using Ethernet, then click the Discover button. In the Attenuator tab, you should see the CT714c device appear. Modify it to set attenuation values manually and/or configure a script to change attenuations automatically.
- 5. One useful feature for the CT714c is the Rate vs Range test in Chamber View. The second screenshot below shows the possible options this feature gives. For more information, please see Testing Rate vs Range throughput for a WiFi Device.

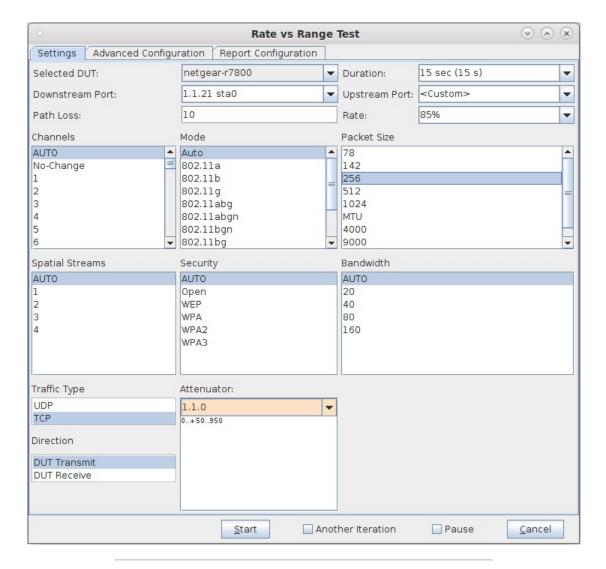
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LANforge-Attenuator Related Images

LANforge Attenuator Configuration Screen



LANforge Attenuator Rate vs Range Test



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Software Features

- 1. Using Rate vs Range, an AP can be tested how well it can transmit packets at different signal levels for transit and receive.
- 2. Emulate mesh node distance.
- 3. Test device roaming between APs.
- 4. Test how well the AP can receive packets with different MCS at different RF Signal levels.

Hardware Specification

Additional Products

For a more complete WiFi testing setup, you may wish to consider the CT711 RF Noise generator, CT712 RADAR Simulator, CT523 and CT525 series WiFi traffic generators.

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