

CT704b LANforge-Attenuator with 4 Attenuator Modules: 0.3Ghz to 6Ghz

The CT704b RF Attenuator is used to attenuate (decrease) the RF signal between wireless devices. The CT704b uses 4 of the 4205A - 95.5 modules from API Technologies. A summary of the technical specifications is below:

Max RF Power:	+23 dBm
Impedance:	50 Ω
Frequency Range:	0.3 GHz – 6.0 GHz
Attenuation Range:	0 – 95.5 dB
Attenuation Steps:	0.5 dB increments
Insertion Loss:	8 dB nominal, 10 dB max
Attenuation Accuracy:	1-15 dB: ±1dB, 16+ dB: ±1.5dB or 4%

The CT704b may be controlled by the two knobs on the faceplate and may also be controlled through software access over the USB-Serial port. The included LANforge software suite supports automated scripting as well as manual configuration of the attenuator modules.

The CT704b is a test tool and should be used in an RF enclosure to prevent un-intended RF interference with other equipment.

The CT704b has no moving parts and will fit into a small travel bag or briefcase for easy portability.

The CT704b includes 8 SMA-Male to SMA-Male semi-rigid RF cables, USB Cable, and external power supply (brick).



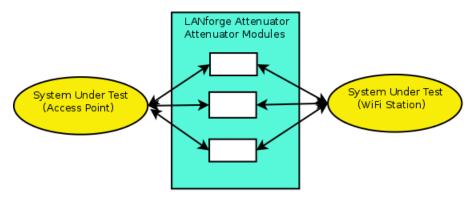
NOTE: This product may have a different hardware configuration than the system pictured above.

Refer to your official quote for details.

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 using either the attenuator knobs or use software to adjust the values over the USB-Serial connection.

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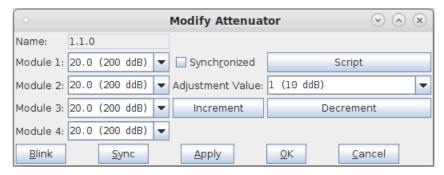
Quick Start Guide

- 1. Connect 9v 1A DC Power brick.
- 2. Optionally: Connect USB cord to Linux PC for managing through LANforge or other program.
- 3. Connect the Attenuator pairs: Top SMA connector to one system, bottom to the other.
- 4. Adjust menu with top knob to 'All' or individual modules and use bottom knob to adjust attenuation settings.

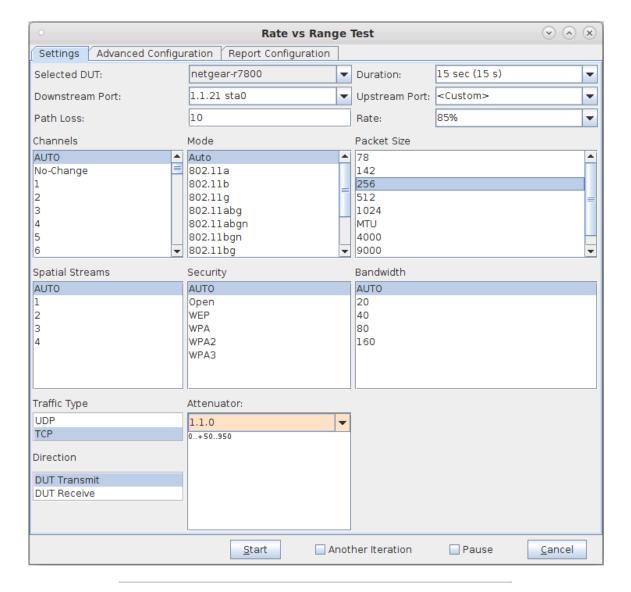
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LANforge-Attenuator Related Images

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

- 1. RF Attenuator with 0.3Ghz to 6 Ghz.
- 2. Includes 4 4205A 95.5 RF Attenuation modules from API Tech.
- 3. Controlled by Arduino-Mega micro-controller and custom electronics boards.
- 4. USB-Serial console (115200 8 N 1) for scripting and automated control.
- 5. 2 rotating knobs for manual adjustment.
- 6. LCD Screen for display of current settings.
- 7. High-Quality aluminum chassis with extruded body and 2.4mm thick faceplates.

- 8. Internal RF connectors are highly shielded semi-rigid SMA cables.
- 9. +9v 1AMP external power supply (brick). May also be powered from 500ma USB port.
- 10. Weight: 3 lbs or 1.4 kg.
- 11. Dimensions: 9 x 9.5 x 3 inches Metric: 240 x 230 x 80 mm.
- 12. Operating Temperature: 0 ~ 40°C.
- 13. Operating Humidity: 10 ~ 90%.
- 14. Certification: RoHS.

4205A - 95.5 module specifications:

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List Price: \$6,995 List Price with 1 Year support (17%): \$8,184

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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