

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: ± 1 dB, 16+ dB: ± 1.5 dB 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 has no moving parts and will fit into a small travel bag or briefcase for easy portability.

The CT704b includes 8 RP-SMA Plug to RP-SMA Plug patch cables, USB Cable, and external power supply (brick).



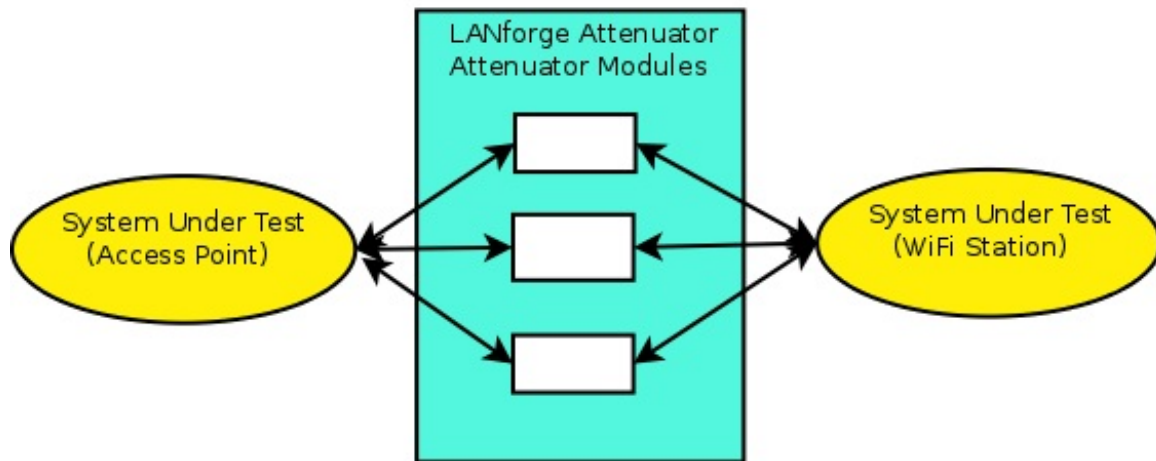
NOTE: This product may have a different hardware configuration than the system pictured above.
Refer to your official quote for details.

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 WiFi AP on one side and WiFi Station on the other). Connect shielded RP-SMA Plug cables between the Attenuator and WiFi Stations. Adjust the attenuations as desired using Attenuator knobs and/or use a program 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-GUI Attenuator Configuration Screen

Modify Attenuator

Name: 1.1.2

Module 1: 35.0 (350 ddB) Synchronized **Script**

Module 2: 35.0 (350 ddB) **Adjustment Value** 50 (50 ddB) **Adjust**

Module 3: 35.0 (350 ddB)

Module 4: 35.0 (350 ddB)

Sync **Apply** **OK** **Cancel**

LANforge-GUI 2544 Script with Attenuation

Add/Modify Script

Endpoint Name: Script Type:

Script Name: Group Action:

Enable Script Show Reports Symmetric Loop Hide Iteration Details Hide Legend Hide CSV

Script Iterations: **192** Estimated Duration: **38.4 m**

Script Configuration

Show Dups Show 000 Show Attenuation Hide Latency Distributions Hide Constraints

Run Duration: Pause Duration:

Max Drop Percent: Max-Tx-Underrun:

Max Jitter: Max RT Latency:

Max Failed OK:

Rates A	Rates B	Payload Sizes A	Payload Sizes B	Attenuations (ddBm)
<input type="text" value="bps"/> <input type="text" value="56000 (56 Kbps)"/>	<input type="text" value="bps"/> <input type="text" value="400000000 (400 Mbps)"/>	<input type="text" value="1472 (1.438 KB)"/>	<input type="text" value="9000 (8.789 KB)"/>	<input type="text" value="1.1.3"/> <input type="text" value="0..+5..955"/>

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Software Features

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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Impedance:	50 Ω
Frequency Range:	0.3 GHz - 6.0 GHz
Attenuation Range:	0 - 95.5 dB
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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 RADAR Simulator](#), [CT523](#) and [CT525](#) series WiFi traffic generators.

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