

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).



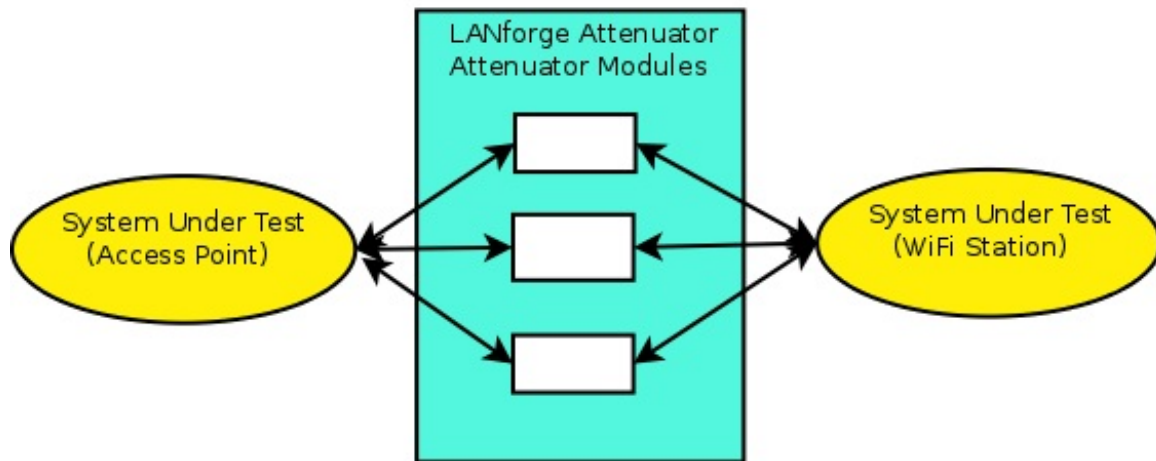
NOTE: This product may have a different hardware configuration than the system pictured above.
Refer to your official quote for details.

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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="56000 (56 Kbps)"/>	<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
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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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