

CT704 LANforge-Attenuator with 4 Attenuator Modules: 0.7Ghz to 6Ghz

The CT704 RF Attenuator is used to attenuate (decrease) the RF signal between wireless devices. The CT704 uses 4 of the [ATS0760-95](#) modules from EUBUS. A summary of the technical specifications is below:

Impedance:	50 Ω
Frequency Range:	0.7 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 CT704 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 CT704 has no moving parts and will fit into a small travel bag or briefcase for easy portability.

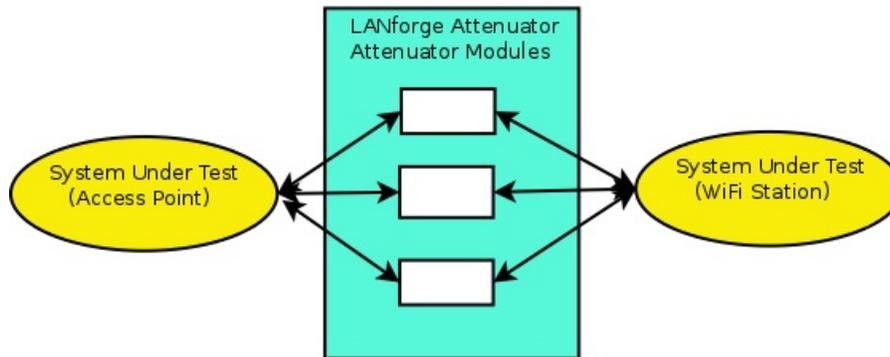
The CT704 includes 8 RP-SMA Plug to RP-SMA Plug patch cables, USB Cable, and external power supply (brick).



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



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.

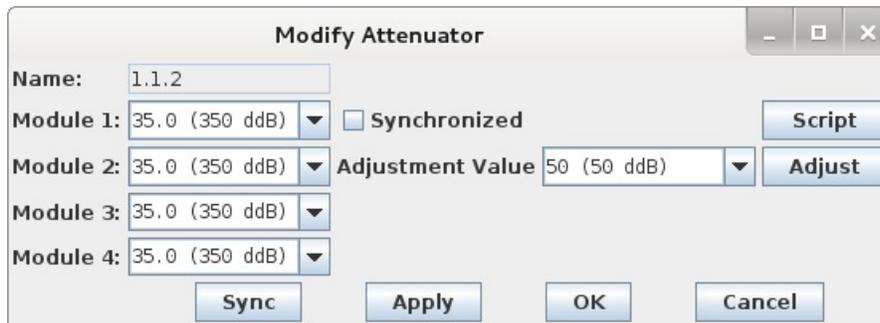
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Quick Start Guide

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.

LANforge-Attenuator Related Images

LANforge-GUI Attenuator Configuration Screen



The screenshot shows a window titled "Modify Attenuator" with standard window controls (minimize, maximize, close) in the top right corner. The window contains the following fields and controls:

- Name:** A text input field containing "1.1.2".
- Module 1:** A dropdown menu showing "35.0 (350 ddB)".
- Module 2:** A dropdown menu showing "35.0 (350 ddB)".
- Module 3:** A dropdown menu showing "35.0 (350 ddB)".
- Module 4:** A dropdown menu showing "35.0 (350 ddB)".
- Adjustment Value:** A dropdown menu showing "50 (50 ddB)".
- Synchronized:** An unchecked checkbox.
- Buttons:** "Script", "Adjust", "Sync", "Apply", "OK", and "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)
bps 56000 (56 Kbps)	bps 400000000 (400 Mbps)	1472 (1.438 KB)	9000 (8.789 KB)	<input type="text" value="1.1.3"/> 0..+5..955

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Software Features

Hardware Specification

1. RF Attenuator with 0.7Ghz to 6 Ghz.
2. Includes 4 **ATS0760-95** RF Attenuation modules from **EUBUS**.
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.

ATS0760-95 module specifications:

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Frequency Range:	0.7 GHz - 6.0 GHz
Attenuation Range:	0 - 95.5 dB
Attenuation Steps:	0.5 dB increments

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List Price: \$6,650 List Price with 1 Year support (17%): \$7,780

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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