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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: ±1dB, 16+ dB: ±1.5dB 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.

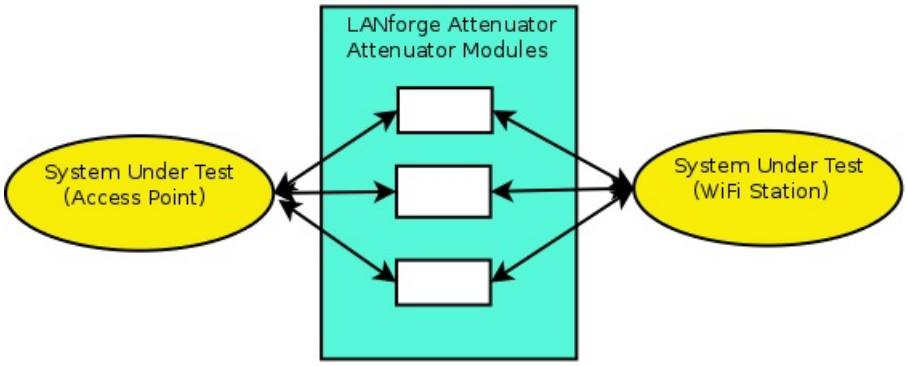
The CT704 has no moving parts and will fit into a small travel bag or briefcase for easy portability.

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.

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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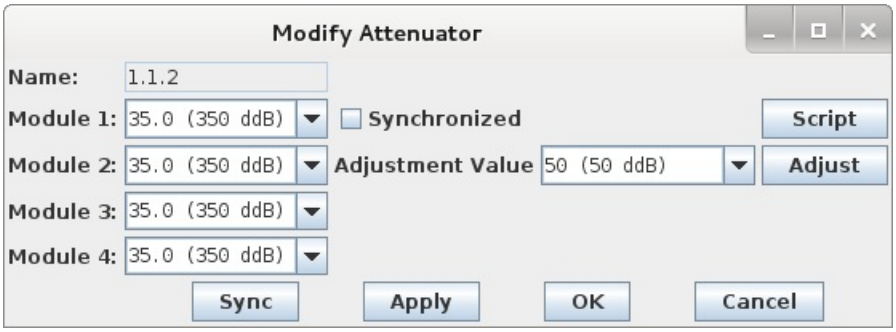
Quick Start Guide

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.

LANforge-Attenuator Related Images

LANforge-GUI Attenuator Configuration Screen



LANforge-GUI 2544 Script with Attenuation

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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:

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: ±1dB, 16+ dB: ±1.5dB or 4%

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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