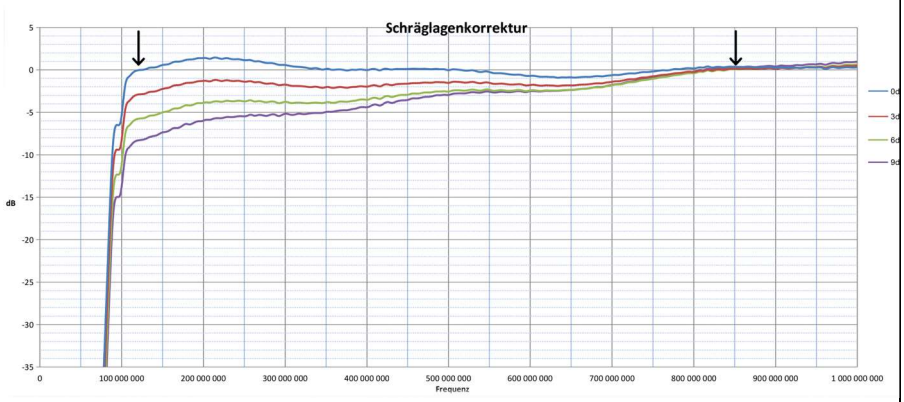
AMP X8

- Gain 33 dB (internal 48 dB)
- Bandwidth 1.5 GHz
- Ripple 1.5 dB
- Integrated amplifier 125 dBµV
- Noise figure 4 dB
- Noiseflor -170 dBm/Hz
- Integrated 8-fold splitter
- 8 outputs with max. 108 dBµV
- Return channel lock
- High pass and low pass filter
- Up to 8 G.hn modules
- Internal performance meter 50 dbµV to 110 dbµV
- Up to 64 participants/EOC1000
- Remote power supply 24 V up to 40 EOC1000
- Digitally adjustable:
    - 8x 31dB attenuator (0.5 dB steps)
    - skew correction (0-3-6-9 dB)



G.hn pulg-in module

- Frequency range: 2 - 199 MHz
- Network standard: G.hn
- Hardware encryption: AES 128-bit
- Quality of Service: VLAN/TOS/Packet Classifier
- Data rate gross: 1000 Mbps
- Net data rate: 700 Mbps

Important: setting the output power

The **total band power** (approx. 90 transponders) is 19.5 dB higher compared to the output power of a **single** transponder determined with a measuring device!
You must take this into account when adjusting the total band power.

Example 1

- 1 transponder: 80.0 dBµV measured
- 90 transponders: 99.5 dbµV tape power

The LED display on the device shows 99 dBµV.
Result: The input signal can be amplified (only) by 10 dB.

Example 2

- 1 transponder: 90.0 dBµV measured
- 90 transponders: 109.5 dbµV tape power

The LED display on the device shows 109 dBµV.
Result: The input signal cannot be further amplified.

Consideration for five in-wall sockets in the line:

- Good TV reception requires 60 dbµV - 75 dbµV at the input.
- One in-wall socket EOC 1000/EOC 2000 has a transmission loss of 2-3 dB and a decoupling loss of 18 dB.
- The AMP X8 delivers a maximum of 110 dbµV per segment string.

After five EOC 1000/EOC 2000 in-wall sockets connected in a row is the total attenuation:

- 4x3 dB Transmission loss
- + 18 dB /Decoupling attenuation
- + 4 x 1-2 dB Attenuation in the coaxial cable
- = 34-38 dB Total attenuation

Then an optimal setting on the AMP X8 would be:
60 bµV-65 dbµV + 38 dB = 98-103 dbµV.

At the first in-wall socket, 12 dB would then arrive at the output, i.e. 72-77 dbµV.