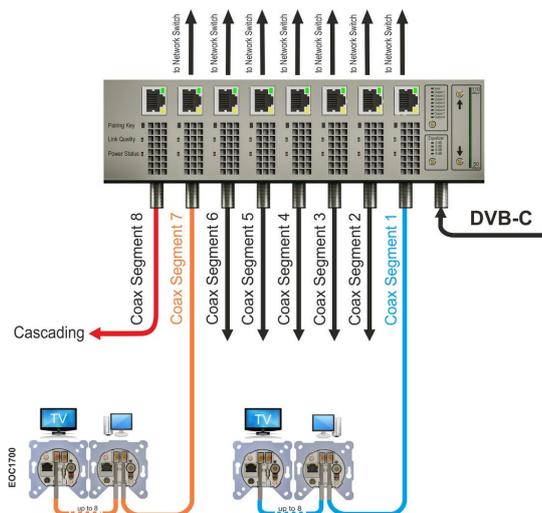


ALLNET Point-to-Point Coax 8 Port Master Chassis/Amplifier EOC 100 without modules incl. power supply "ALL-GHN108M-Coax-200"

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ALLNET Point-to-Point Coax 8 Port Master Chassis "ALL-GHN108M-Coax-200" without modules

The distribution amplifier ALL-GHN108M-Coax is a highly integrated solution to provide a Gigabit network on 8 coaxial lines. Up to 8 G.hn modems deliver 750 Mbit or 1700 Mbit net per coaxial strand, depending on the model. A built-in power meter simplifies service during and after installation. Without compatibility to a cable network operator, even up to 1700 Mbit is available. Signal strength and skew can be digitally adjusted. If compatibility with a cable network operator is required, 750 Mbit are available. The ALL-GHN108M-Coax-200 takes care of all tasks such as filtering, amplifying and splitting the TV signals as well as inserting the G.hn network data. Elaborate mounting boards / installations are not necessary.

The chassis are available for EOC-Ethernet over COAX with 100MHz modules for DVB-C coexistence and as 200MHz with more bandwidth without DVB-C coexistence. Or explained differently.

The EOC 100 and EOC 200 differ as follows:

EOC 100 1 Gbit/650 Mbit (gross/net) see (Part No. 193132)

EOC 200 2 Gbit/1.7 Gbit (gross/net) see (Part No. 221624)

EOC 100 and EOC 200 - What's behind them !

The EOC 100 uses the frequency band 2-87 MHz for the transmission of data and can provide the broadband cable signal (DVB-C) from 88 to 860 MHz, so that the cable connection of your provider can still be fully used.

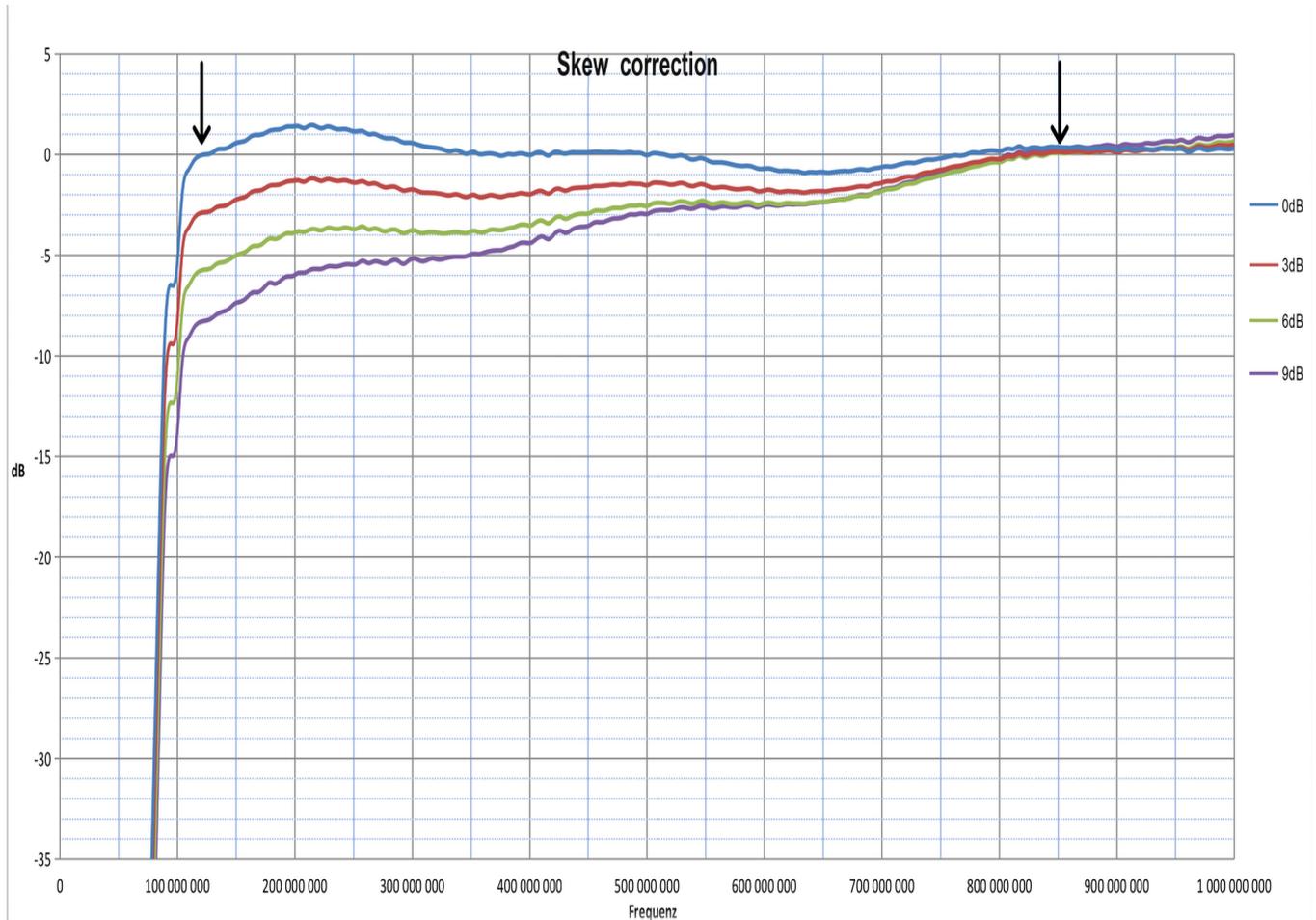
The EOC 200 uses a frequency band of 2-199 MHz. Ideal for operators of a headend

Technische Daten

ALL-GHN108M-Coax-200

- Gain 33 dB (internal 48 dB)
- Bandwidth 1.5 GHz
- Ripple 1.5 dB
- Integrated amplifier 125 dB μ V
- Noise figure 4 dB
- Noise floor -170 dBm/Hz
- Integrated 8-fold splitter
- 8 outputs with max. 108 dB μ V
- Return channel lock
- High pass and low pass filter
- Up to 8 G.hn modules
- Internal performance meter 50 dB μ V to 110 dB μ V
- Up to 64 participants/EOC1700
- Remote power supply 24 V up to 40 EOC1700
- Digitally adjustable:
 - 8x 31dB attenuator (0.5 dB steps)
 - skew correction (0-3-6-9 dB)





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 dB μ V measured

90 transponders:

99.5 dB μ V tape power



The LED display on the device shows 99 dB μ V.

Result: The input signal can be amplified (only) by 10 dB.

Example 2

1 transponder:

90.0 dB μ V measured

90 transponders:

109.5 dB μ V tape power

The LED display on the device shows 109 dB μ V.

Result: The input signal cannot be further amplified.

Consideration for 5 in-wall sockets in the line:

- Good TV reception requires 60 dB μ V - 75 dB μ V 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 dB μ V per strand.

After 5 EOC 1000/EOC 2000 in-wall sockets connected in a row is the total attenuation:

4x3

dB

Transmission loss

+



18

dB

Decoupling attenuation

+

4x1-2

dB

Attenuation in the coaxial cable

=

34-38

dB

Total attenuation

Then an optimal setting on the ALL-GHN108M-Coax-200 would be:
 $60 \text{ dB}\mu\text{V} - 65 \text{ dB}\mu\text{V} + 38 \text{ dB} = 98-103 \text{ dB}\mu\text{V}$.

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

Accessories

Part No.	Name
221625	ALLNET Point-to-Point Coax 8 Port Master Chassis/Amplifier EOC 200 zbh. EOC G.hn module for chassis 100MHz "ALL-GHN108M-Coax-200"
221626	ALLNET Point-to-Point Coax 8 Port Master Chassis/Amplifier EOC 200 zbh. EOC G.hn flush-



Part No.: 221624
Vendor Part No.: ALL-GHN108M-Coax-200

Part No.	Name
	mounted box/through box "ALL-GHN108S-200-UP socket
221627	ALLNET Point-to-Point Coax 8 Port Master Chassis/Amplifier EOC 200 zbh. EOC G.hn WIFI flush-mounted box/pass-through box "ALL-GHN108S-200-UP socket
223949	ALLNET Switch full managed Layer2+ 10 Port • 8x GbE • PoE Budget 130W • 8x PoE at • 2x SFP • 19" • Fanless • JSON API • ALL-SG8610PMJ
210793	ALLNET Switch full managed Layer2+ 18 Port • 16x GbE • 4x SFP • 19" • Fanless • ALL-SG8618M
174790	Synergy 21 Netzteil - 24V 240W Mean Well Hutschiene