



LexCom Home® Instructions for R/TV Module

A110-30

Lexel no: 30 633 0003, EAN no: 57 03 302 102 872

A110-42

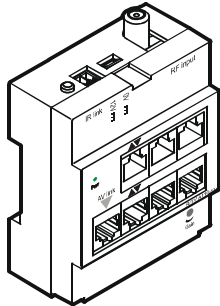
Lexel no: 30 633 0010, EAN no: 57 03 302 113 632

A110-55

Lexel no: 30 633 0004, EAN no: 57 03 302 102 889

A110-65

Lexel no: 30 633 0005, EAN no: 57 03 302 102 896



Application

The amplifier module is to be used exclusively in the LexCom Home system. The module is a Quality Grade 2 product and is a non-cascadeable amplifier, including return path, used for both cable radio- and TV-signals.

The main radio- / TV-signals connected to the input are splitted into 6 parallel outputs, where 2 of these also includes a return path (marked ▲▼).

The frequency band supported by the return path emerges from the type of the individual amplifier as follows

Type	Return Path
A110-30	5 - 30 MHz
A110-42	5 - 42 MHz
A110-55	5 - 55 MHz
A110-65	5 - 65 MHz

Further, an extra port is supporting the LexCom Home AV link, and is as such available as input for AV-signals (marked ▼).

Signals from LexCom Home modulators connected to this port are mixed with the main signals and distributed to all 6 output ports.

The amplifier module is supporting the LexCom Home IR link system. All 6 output ports are able to receive "IR signals" from LexCom Home IR receivers.

Construction

The module is a fully shielded unit made in DIN-format.

On the front, as shown in Fig. 1, there are 7 shielded RJ45 ports available to the user. Also a green LED indication for Power and an adjustment for the Gain are located on the front.

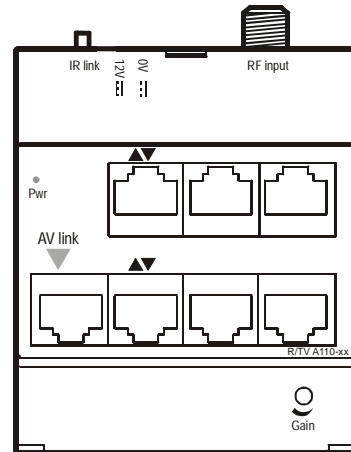


Fig. 1: Front view of the Antenna module

On the top of the module, as shown in fig. 2, a 2-pole connector for Power supply (12 V DC), a F-connector for the incoming radio- / TV-signals and an output jack for the IR link are located.

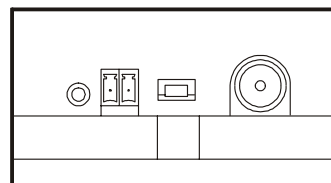


Fig. 2: Top view of the Antenna module

Installation

- The cable (R/TV signals) carried to the distribution board is connected to the female F-connector (*RF input*) on the module. (F-connector for the cable is not supplied). The amplifier module is to be regarded as an end-outlet.
- Power is connected from the LexCom Home Power supply. The module is protected against wrong polarity.
- The output level is adjusted from the *Gain* regulation. All output ports are adjusted simultaneously. Tune to an output level that ensures a signal between 60 and 80 dB μ V at the outlets of both the longest and the shortest links in the LexCom Home installation. The gain adjust potentiometer is located immediately below the front cover (⊗-format) and adjustments are performed through the hole.
- There are no tilt adjustment since the amplifier has a factory set equaliser matching the cable attenuation. This is performing optimal only on the condition that the incoming signal connected to the amplifier module has a maximum tilt of 5 dB and always lays in the area between 60 to 80 dB μ V in terms of the signal level.

Notice!

Disconnect the telephone line and coaxial line from the Distribution Center prior to installing, removing, or performing any work with the modules in the Distribution Center.

The Distribution Center shall have a permanent, reliable earth ground connection.

If required, a surge protection device to serve as protection against transients shall be installed separately.

The CE-marking acts as a seal. If broken the guarantee is no longer valid.

When connecting the radio- and TV-appliances to the wall outlets, it is necessary to use dedicated LexCom Home connection cords. In these, the conversion between the 100 Ohm balanced cabling and the 75 Ohm coaxial connections on R/TV appliances is carried out.

Technical specifications

Common

Power supply (external) :	12 volt DC \pm 5% , (Negative (-) put to GND)
Power Consumption:	3.5 Watt
Gain @ 862 MHz :	32 dB (on all 6 ports) \pm 2 dB
Attenuation :	0 – 25 dB
Input impedance :	75 Ohms , F-connector
Output impedance :	100 Ohms , Balanced
Input level :	60 – 80 dB μ V
Output level :	108 dB μ V x 6 (Measured according to DIN 45004-B)
No of TV-Channels :	60
Noise figure :	< 6.5 dB @ 860 MHz
Isolation between outputs :	> 20 dB
Return Path Gain :	6 dB
CTB	94 dB μ V
CSO	88 dB μ V
Stop band attenuation :	> 55 dB
AV link input level	80-90 dB μ V
AV input frequency range	88-860 MHz
Temperature (operating):	0 - 40° C
Standards :	EN 50083-3 , 50083-10 quality grade 2 cat. C

A110-30

Frequency range, forward	47 – 860 MHz
Return path	5 - 30 MHz

A110-42

Frequency range, forward	58 – 860 MHz
Return path	5 – 42 MHz

A110-55

Frequency range, forward	70 – 860 MHz
Return path	5 – 55 MHz

A110-65

Frequency range, forward	85 – 860 MHz
Return path	5 – 65 MHz