

User instructions

ELKO Link Home R/TV Module



R/TV Module EL 1030 (5-30 MHz)

ELKO P/N 6854 N 69 426 45
S 51 860 22 FIN 72 042 54

R/TV Module EL 1055 (5-55 MHz)

ELKO P/N 6860 N 69 426 69
S 51 860 26 FIN 72 042 50

R/TV Module EL 1065 (5-65 MHz)

ELKO P/N 6861 N 69 426 70
S 51 860 27 FIN 72 042 51

Type	Return Path
EL 1030	5 - 30 MHz
EL 1055	5 - 55 MHz
EL 1065	5 - 65 MHz

Application

The amplifier module is to be used exclusively in the ELKO Link 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 "Outputs sup. ret. path").

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

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

Signals from ELKO Link 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 ELKO Link Home IR link system. All 6 output ports are able to receive "IR signals" from ELKO Link Home IR receivers.

Figure 1: Front view of the Antenna module

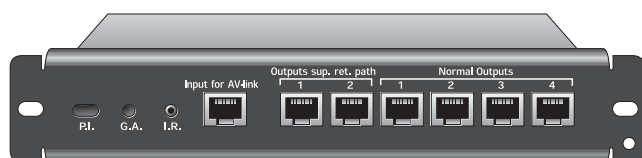
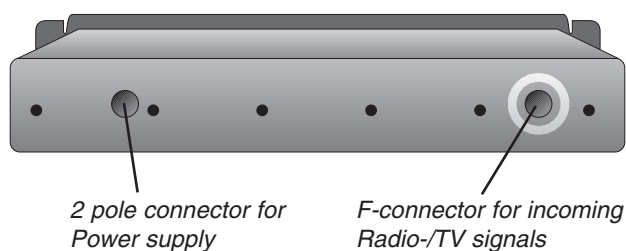


Figure 2: Back view of the Antenna module



Construction

The module is a fully shielded unit made in 10" format, 10" wide and 1 Height unit. 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, adjustment for the gain, and an output for the IR link are located on the front.

On the back 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 are located.

Technical specifications

COMMON	
Power supply (external) :	12 volt DC $\pm$ 5% , (Negative (-) put to GND)
Power Consumption:	3,5 Watt
Gain @ 862 MHz :	35 dB (on all 6 ports) $\pm$ 2 dB
Attenuation :	0 – 20 dB
Input impedance :	75 Ohms , F-connector
Output impedance :	100 Ohms , Balanced
Input level :	60 – 80 dB μ V
Output level :	114 dB μ V x 6 (Measured according to DIN 45004-B)
No of TV-Channels :	41
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:	90 dB μ V
AV input frequency range:	88-470 MHz
Temperature (operating):	0 - 40 °C
Standards :	EN 50083-3 , quality grade 2 , cat. C

EL 1030	
Frequency range, forward	47 – 860 MHz
Return path	5 - 30 MHz

EL 1055	
Frequency range, forward	70 – 860 MHz
Return path	5 - 55 MHz

EL 1065	
Frequency range, forward	85 – 860 MHz
Return path	5 - 65 MHz

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 ELKO Link 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 ELKO Link Home installation. The gain adjust potentiometer is located between the power indicator LED, and IR link port.
- 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 10 dB and always lays in the area between 60 to 80 dB μ V in terms of the signal level.

Notice!

If opening the top cover screws, the guarantee is no longer valid.

When connecting the radio- and TV-appliances to the wall outlets, it is necessary to use dedicated ELKO Link 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.

