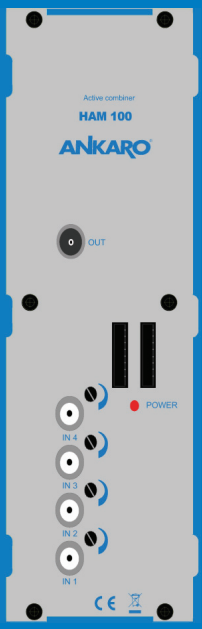
ANKARO®

HAM 100

User's manual (English)



DVB Digital Video Broadcasting

Chapter 1. Installation.

1.1. Safety rules

Please read the safety rules carefully before installing this equipment.

1.- Respect ventilation slots of this equipment. Avoid covering them with any object.
2.- Keep clean and without obstacles a minimum radius of 40 cm around this equipment.
3.- Do not place any heating source near this equipment.
4.- Do not install this equipment outside its temperature range.
5.- Avoid placements where liquids could be poured in or with important temperature changes.
6.- Never open the device by yourself. Refer servicing to qualified staff only.
7.- Never open the device when it is connected to electrical current.
8.- During connection it is suitable that the equipment is switched off and not connected to electrical current.
9.- Respect electrical security rules during the assembly. Use materials that fulfill laws in force.
10.- Connecting pin (power plug) must be quickly and simply accessible in order to assure a fast disconnection.
11.- To prevent shock hazard, do not touch the power plug with wet hands. Always unplug the receiver before working on the connections.
12.- Do not put any heavy objects over this equipment; the equipment could be damaged.

1.2. Complete Content

HAM 100

User's manual

Power cable

Adapters for frame HFRW 100

1.3. Description and connections

With this combiner, it is possible to mix signals coming from different head end systems, in order to obtain all the generated TV channels in a single cable.

The combiner HAM 100 receives up to four RF signals in the TV band; it mixes them, and amplifies them to have them ready at the output.

Each input has an attenuator that works in the whole band and allows regulation the gain applied to the signals coming through it. With this regulation, you can obtain at the output all the signals with the same level.

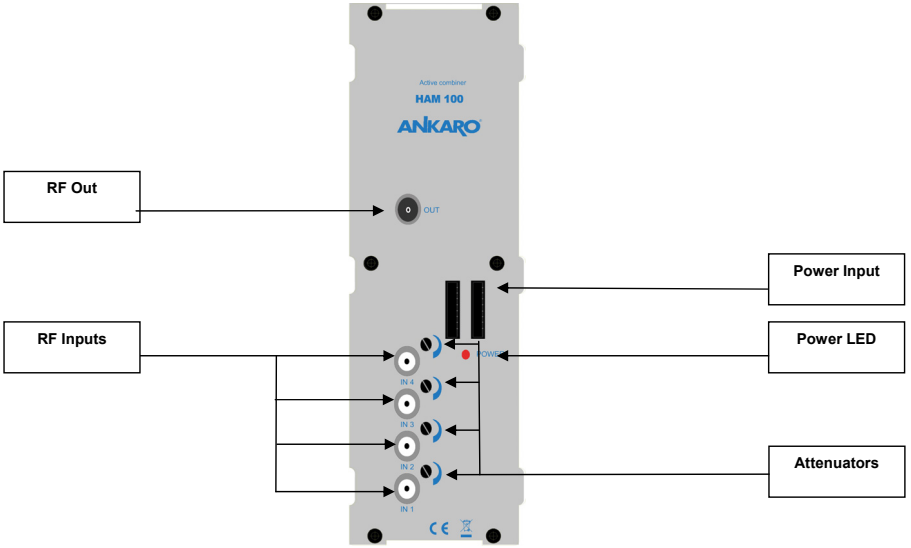
The equipment has been designed in order to each input comes from an equipment of 6 channels of the HSAR 100 or HTAR 100, therefore with a HAM 100 it is possible to mix in an optimal manner up to 24 TV channels.

The concept of mixer is different than the concept of amplifier. The HAM 100 is not though to amplify the signals in order to distribute them, but combining them keeping a quality parameters enough for amplifying all together once they are mixed.

Due to the equipment of 6 receivers with a Power Supply occupy the entire available space in a HFRW 100 frame, the HAM 100 is supplied with all the needed pieces for extending the frame and allowing placing one space more.

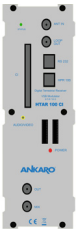
In this manner, we achieve that a frame for 6 modules and Power Supply (total 7 modules) becomes a frame for 8 modules.

It is important to highlight that the combiner HAM 100 is fed from the same HPS 100 which feeds the rest of the modules. Due to that, the HAM 100 has been designed with Low Consumption and using as feeding the voltage of the via 23 VDC, used exclusively for the feeding of the LNC in the rest of the modules, disposing normally of power enough in the Power Supply.



1.4. Accessories and installation examples

Accessories



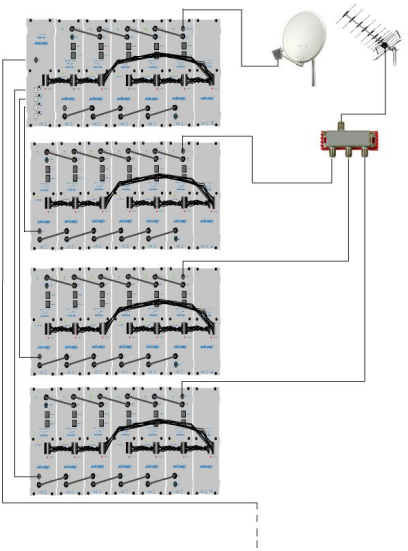
Digital terrestrial receiver with CI
Mod. HTAR 100 CI Code 20006.11

Support for 19" Rack
Mod. HFRR 100 Code 20016.11

Digital satellite receiver
Mod. HSAR 100 Code 20000.11

Installation example

Examples of installations of HAM 100 combining and amplifying the signal coming from four Kits of 100 Series. In the example we can see one Kit HSAR 100 and three Kit HTAR 100. Each Kit is made of 6 modules and its Power Supply.
The signal that is coming from each Kit is connected to each one of the four inputs of HAM 100.
At the output, all the generated TV channels are available. Through the regulation, it is allowed having all the signals with the same level at the output.



Chapter 2. Technical data

Reference	HAM 100
Code	20012.11
Nº Inputs /Nº Outputs	4/1
Frequency Margin (MHz)	47-862 MHz
Connectors	F female
Gain (dB)	20
Regulation Margin (dB)	10
Output Level DIN 45004B (dBuV)	114
Power Supply	HPS 100
Consumption	30 VDC - 0 mA 21 VDC - 350 mA 12 VDC - 0 mA 5 VDC - 0 mA
Dimensions (mm)	75 x 265 x 150

Chapter 3. Conformity declaration

CONFORMITY DECLARATION

"WE , ANKARO, DECLARE THAT THE PRODUCT
HAM 100
ARE IN CONFORMITY WITH FOLLOWING DIRECTIVES
Low Voltage Directive 2006/95/EC
EMC Directive 2004/108/EC"

If you wish a copy of the conformity declaration, please contact to the company

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