

ABI-EV2012S00

Home TV Gateway - RF Broadband and IP Streaming - 4port Master

Quick Start Guide

1 Package Contents

- DIN rail mountable Broadband Amplifier module
- Quick Start Guide
- 3 RJ45 Termination plugs

2 Tools

- Spanner 11mm

3 Introduction

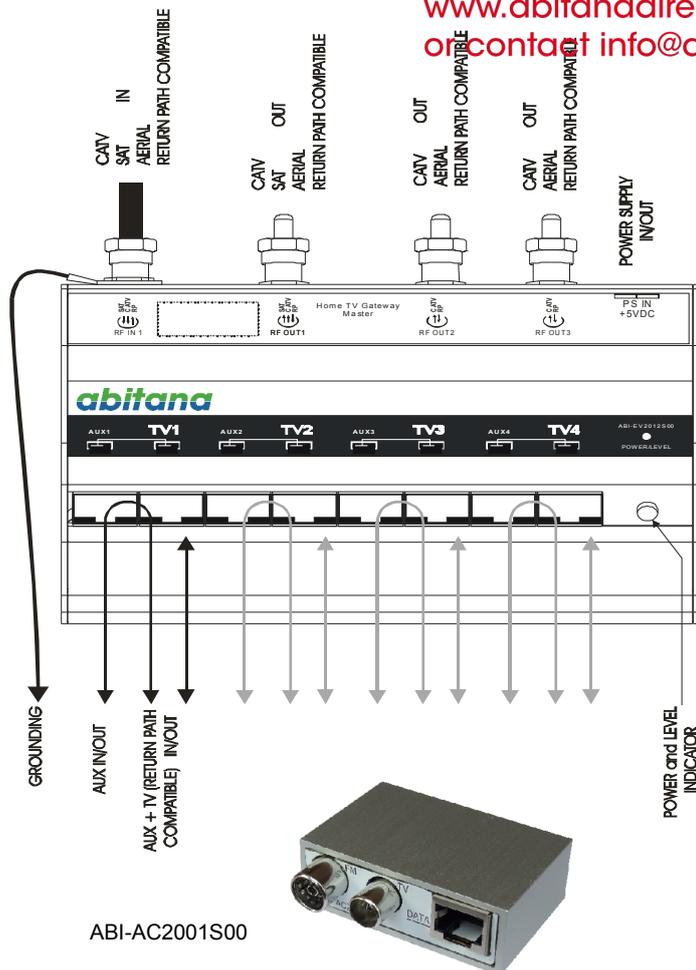
The ABI-EV2012S00 is a Broadband Amplifier with integrated return path. The module is equipped with one coaxial input for CATV signal or antenna (eventually combined with a satellite signal). The module has one coaxial TV/Satellite output and 2 coaxial TV extension outputs.

The unit has 4 independent RJ45 (Twisted Pair) outputs on the front.

A range of Twisted Pair to Coax adapters (with or without adjustment, filters, IR...) is available for installation at the receiver end (i.e. ABI-AC1002S00, ABI-AC2001S00,...).

All 4 ports of the module are ready for in-band return path (e.g. VOO, UPC,...) and for ethernet return path (e.g. T-enet).

4 Connectors



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look for alternatives on
www.abitanadirect.com
 or contact info@abitana.com

5 Power

Load ratio for this module = 0,6.

Maximum allowed load ratio (sum of the load ratios for all modules) for power supply ABI-PS1001S14 = 4.

6 Installation

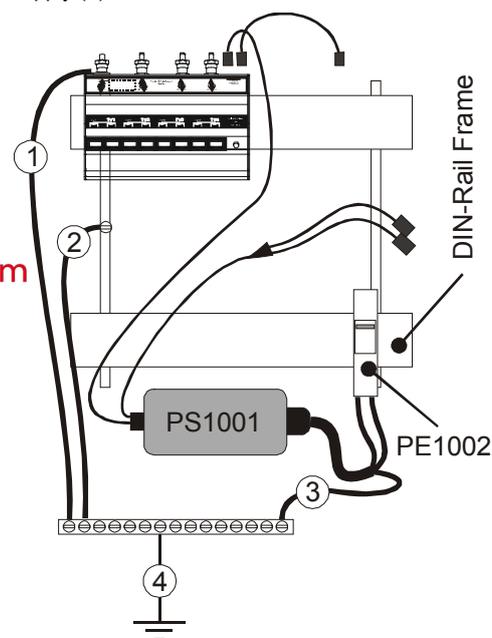


Power Off the central **ABI-PS1001S14** Power Supply by means of the Circuit Breaker installed in the '**Comm Center Cabinet**', or by removing the mains power cord from the Power Supply.

1. Make sure the shielding of the Network Interface Unit (NIU) or CATV transition point is properly connected to the protective ground.
2. Open the 'Comm Center Cabinet'
3. Click the ABI-EV2012S00 unit on the metal DIN-rail.
4. The ABI-EV2012S00 is supplied with a grounding wire, connected to the input F-connector.

This wire (1) must be connected to the protective ground of the installation.

The following system devices also need to be connected to the protective ground: The DIN-Rail frame (2) and the Power supply (3)



5. Connect one of the unused POWER connectors of the ABI-PS1001S14 Quadruple Power Supply (5VDC - 4A).
6. Connect a coax cable from the CATV connection point (NIU) or the CATV transition point (can be combined with a satellite signal) to the coax input connector CATV/SATANTENNE on the top of the unit.
7. You can connect the coaxial CATV/SAT/ANTENNE output with a satellite decoder.
8. If needed, connect extension modules (ABI-EV2013S00 or ABI-EV2014S00) to the coaxial CATV/ANTENNE outputs using a coaxial patch cord.
9. Tighten the screws of the connector, using the spanner



Failing to follow the instructions (1) to (7) in the specified order may lead to permanent damage of the ABI-EV2012 amplifier

When it is impossible to connect the DIN rails ,frame or CATV transition point to ground, make sure they are at least at the same electrical level (connected to each other).

Please also note our recommendation regarding overvoltage at the end of this manual

10. Turn on the power
11. The indicator on the front of the module should light up green. At start up and after that every other minute, the indicator will blink. When the input level is satisfactory, the indicator will blink at least 5 times.
If the indicator is red, there is no input signal.
If the indicator is yellow, the input signal is too low to guarantee proper operation when using the maximum cable length of the Smart Media network (35m). In this case extra measurements of the input signal are required.
12. Close the 'Comm Center Cabinet'.
13. Locate the Outlet near your TV-set or decoder you want to connect
14. Take a TV/Video Balun (ABI-AC2001S00) and set the level to maximum by means of the power level adjustment screw located on the balun (Turn the screw gently clockwise until it blocks). Then insert the Balun into the free Outlet using a screened RJ45-RJ45 connection cord. If the distance between the outlet and the central communication cabinet is more then 15m, you can also use a balun with fixed gain (ABI-AC1002S00).
15. Insert one end of a coax patch cord (ABI-PC1006Sxx) into the Balun (ABI-AC1002S00 or ABI-AC2001S00).
16. Insert the other end of the Coax patch cord into the TV-set or VCR
17. In the 'Comm Center Cabinet', locate the Comm Center Connector that corresponds to the outlet where you just inserted the Patch cord and insert one end of a 'Comm Center' Patch cord' of a suitable length into this connector.
18. Insert the other end of the Patch cord in one of the numbered ports (TV1-TV4) on the front of the Amplifier.
19. Check the signal quality on the TV set; and adjust the level by means of the level adjustment screw on the Balun if necessary. Normally this is only required for short links between the Comm center Cabinet and the outlet.

7 Use of the AUX ports

Next to each TV port you'll find an extra AUX port equipped with low-pass filters that can be used to send ean extra signal alongside the wideband TV signal over the same connection link (e.g. IR, Ethernet, ADSL, Phone). The pins not used for TV (1,2,3,4,5 and 6) are used for this.

The adapter ABI-AC2001S00 takes care of proper branching out at the other end of the link. Pins 1,2,3 and 6 go to the DATA connector (RJ45). Pins 4 and 5 go to the TEL connector (RJ11)

Simultaneous use of a wideband TV signal and an Ethernet signal is only intended for interactive digital TV with an Ethernet reurn path. (e.g. Telenet).

IMPORTANT REMARK:

Insert a RJ45 Termination Plug in every unused port of the amplifier.

If all four ports are connected to outlets, but not all outlets have a device (TV/HDR/...) connected to it, it is strongly recommended to insert a Termination Plug into the latter (unused) outlets.

A variable gain balun (RJ45/coax adapter) can be used instead of a Termination Plug by setting it to the minimum level position (gently turn the seting screw counterclockwise till it locks).

Additional, and more detailed information concerning this product can be found on the website: www.abitana.com.

Use the following table to write down information about the amplifier and the connections.

Amplifier Serial #	_____
Connection to	
Coax	Antenna <input type="checkbox"/> Cable TV <input type="checkbox"/>
P1- TV	_____
P1-AUX	_____
P2-TV	_____
P2-AUX	_____
P3-TV	_____
P3-AUX	_____
P4-TV	_____
P4-AUX	_____

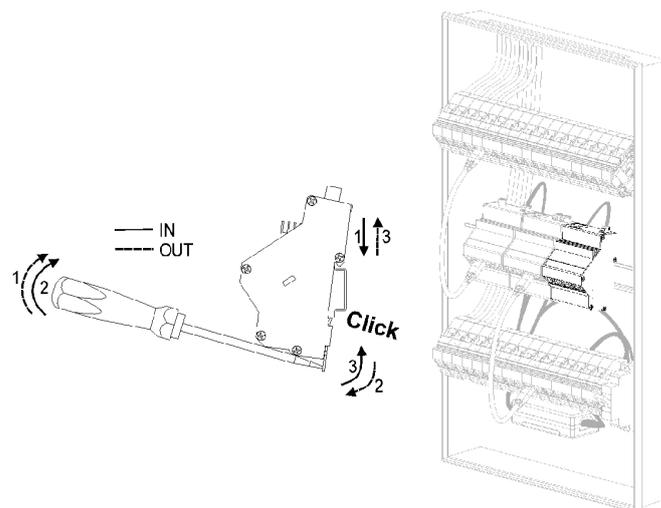


Figure 1: Installation on the DIN-rail

Recommendation regarding overvoltage protection

It is recommended to add an overvoltage protection to the incoming signals. This protects the system against overvoltages caused by power surges, lightning, etc.

A different type of protector is required for every type of signal (Antenna/Cable TV (5) , Telephone (6) , Mains Power (7))

