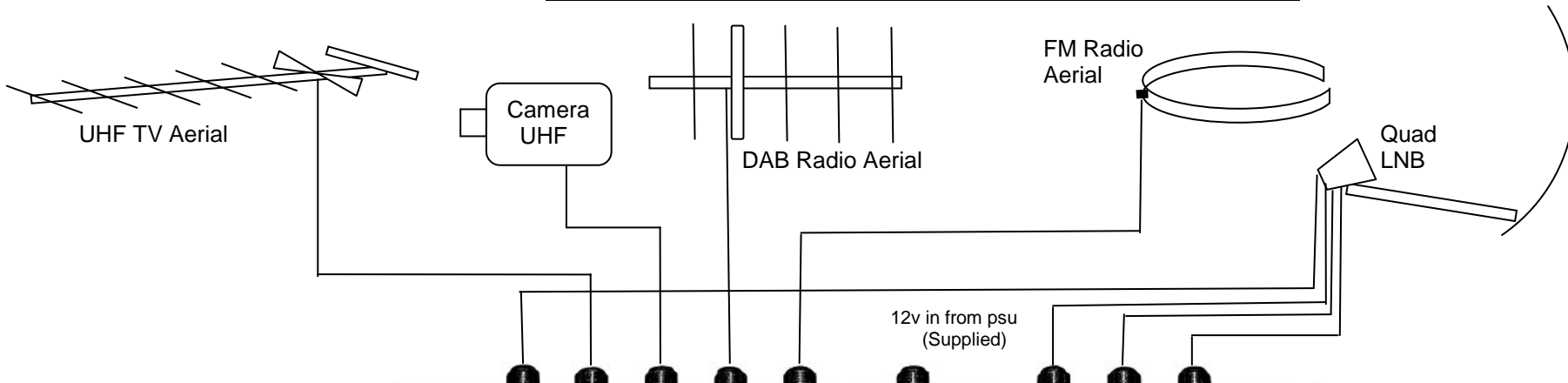


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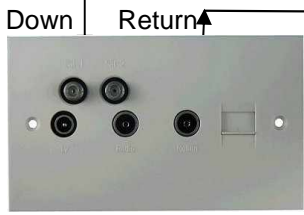


Triax Domestic Distribution Unit (DDU)

Wiring Diagram

See technical specification with more information on sheet below

Triax DDU outlet plate type 304115 usually installed in the lounge. It is to this that the Main satellite receiver is connected to.



These 8 outputs can be fed to 8 additional rooms. Each output carries TV and Radio signals as well as the UHF output of a satellite receiver in the lounge. Remote control of the satellite receiver is available on outputs 1 to 6

In addition outputs 7 and 8 can also be connected to additional satellite receivers for individual satellite viewing

Triax Domestic Distribution Unit DDU (Part No: 333112) complete with 12volt power supply - continued

A domestic distribution unit for the Home Environment. Ideally installed in the loft, garage or other convenient location.

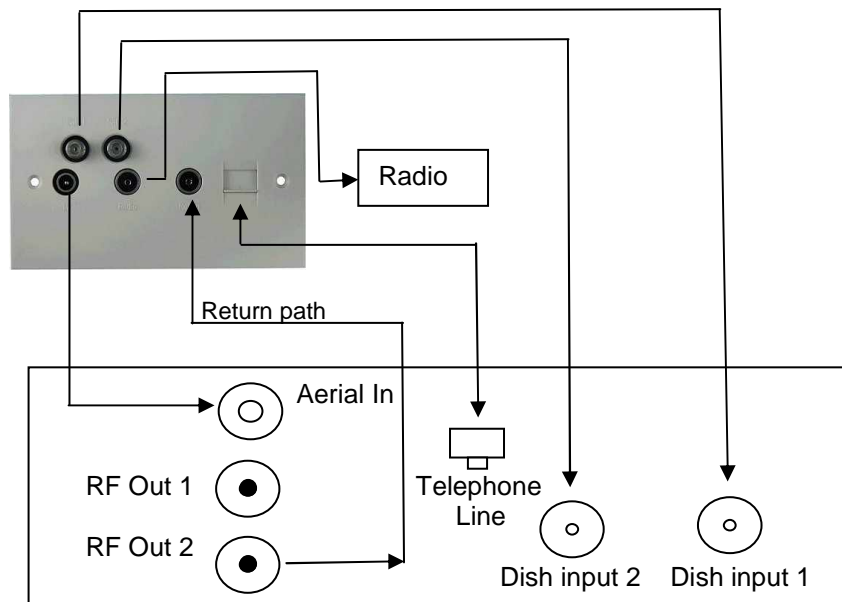
The DDU has the ability to distribute UHF TV, DAB, FM, Freesat HD, (or Sky HD) and CCTV to the main TV plus eight additional rooms. Output 7 and 8 also carry satellite dish signals for the option of connecting independent satellite receivers in these rooms.

Remote control of the main satellite receiver (lounge) is possible from six of the rooms (outputs 1-6) by the use of optional Global TV Link Magic eyes or similar.

What Outlet socket should I use in each room? Firstly we will deal with the room where the main satellite receiver is going to be located; this may well be the lounge.

Fig 1 shows example when using Sky+ or SkyHD satellite receiver. These receivers are best used here as they have RF loop through and modulator.

Fig 1: DDU outlet plate in lounge model 304115



Using Sky Satellite receiver (rear view connection)

(Connection to TV / Video: By either RF Out 1, Scart or HDMI sockets)

Theory

The satellite dish signals are combined with the DAB, FM, TV and Camera signals within the DDU.

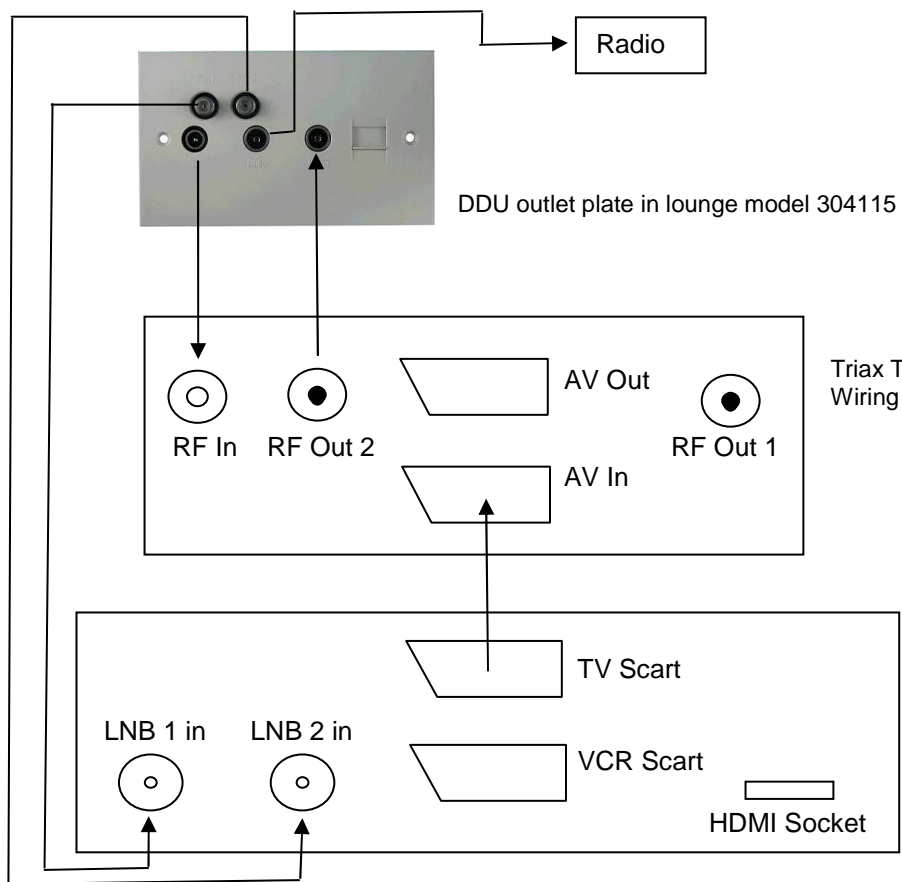
These combined signals are then passed through the DDU to the downlink F socket, see picture on page 1.

In a typical installation a cable would be run from this socket and connected to the rear of the DDU outlet plate. There are two inputs on the rear of this plate.

The plate separates all the signals and passes each one to the relevant outlet socket on the plate.

A cable would be run from the second connection on the rear of the plate which takes the combined signals back to the DDU's uplink socket. These are then amplified and passed to the eight output sockets for connection to other rooms.

Fig 2 on next page shows connections when using freesat receiver



Using Freesat+ HD Satellite receiver (rear view connections)

(Connection to TV / Video: By either Scart or HDMI sockets)

All the products on these pages are stock items. By clicking on any of the pictures this will take you to the specific product on this web site.

Note: All these items are on the DDU product page under 'Related Products'

Other Outlets Plates to use with DDU on next page

Fig 2
Example when using Freesat+ HD satellite receiver with DDU outlet plate in lounge.



Actual view of Tri Link Modulator

Triax Tri Link RF Modulator

As few freesat satellite receivers have RF loop through and RF modulators built in, it would be impossible to distribute their signals around the home.

Thankfully Triax who manufacture the DDU have come up with the excellently built RF modulator with UHF loop through (adjustable 21 – 68).

This does the job perfectly as it takes the AV signal from the TV or VCR scart socket of the freesat receiver. This is then modulated at UHF and passed from the RF Out 2 socket of the modulator to the uplink socket on the DDU outlet plate for distribution to other rooms.

In addition two IR transmitters are provided that can be fitted to the front of the freesat receiver to enable remote control of it from another room aided with the use of optional Global TV Link Magic eyes or similar.

Outlet Plates for use with DDU continued:

Having dealt with the main DDU outlet plate located in the main lounge, we now move on to the other rooms.






There are a total of 8 additional rooms that can be wired for TV, FM-DAB radio, and the satellite output from the lounge i.e. you would be able to view the same satellite channel as being shown in the lounge.

Remote control of the lounge satellite receiver is possible in 6 of these rooms by the use of a suitable remote eye such as the [Global tvlink Magic eye](#).

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Which Outlet Plate should I use? This depends on what equipment you are going to use in any particular room. Here are some examples:

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<p>Room with TV only Triax outlet plate model 304122. Or you could use this outlet for radio only</p>	 <p>304122</p>	<p>Room with TV and Radio (DAB or FM) Triax Diplexed outlet plate model 304118</p>	 <p>304118</p>	<p>Room with TV that has freesat tuner built in, or separate freesat tuner. Also has connection for DAB or FM radio. Triax Triplexed outlet plate model 304102 N.B Connection for satellite receiver only available on outputs 7 and 8 of DDU</p>	 <p>304102</p>
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Specification and technical details of DDU on next page

Triax Domestic Distribution Unit DDU (Part No: 333112) complete with 12volt power supply – Specification

Input frequency range

Input 47-108 MHz B1/FM Radio
BIII/DAB Radio input 174-230 MHz
UHF2 CCTV input 470-862 MHz. NB: If using a surveillance camera that does not have a UHF output but only an AV one, use a Triax Modulator.
UHF1 (TV) input 470-862 MHz
SAT 1...4 (satellite)LNB input 950-2300 MHz
Uplink input (Return Path) 470-862 MHz
IR link for Remote control Eyes (Available on Outputs TV1 to 6 only) 5-30 MHz

Output frequency range:

Downlink output 87.5-2300 MHz
Uplink output IR, 5-30 MHz / SAT2: 950-2300 MHz
R/TV1-6: 87.5 - 862 MHz
BI/FM/DAB/BIII/UHF/satellite outputs (R/TV 7, 8) 47-2300 MHz

Typical gain:

SAT 1...4, UHF 1, UHF 2 to downlink 8 dB
FM, DAB to downlink 10 dB
FM, DAB to R/TV1...4 6 dB
FM, DAB to R/TV 5...6 10 dB
Uplink to R/TV 1...8 6 dB
IR link to uplink/IR 1...4 2 dB
IR link to uplink/IR 5...6 0 dB

Supply/line power requirements:

Supply voltage, V DC (from plug to power supply) 12V/190 mA
Digital link power supply outputs (R/TV 1...6, overload protected) 9V DC @ 20 mA
Power on LED (green) Yes
DC power pass (for LNB) to SAT 1...4 Max. 300 mA
Automatic masthead line power facility (via input 2, overload protected) 12V DC/50 mA

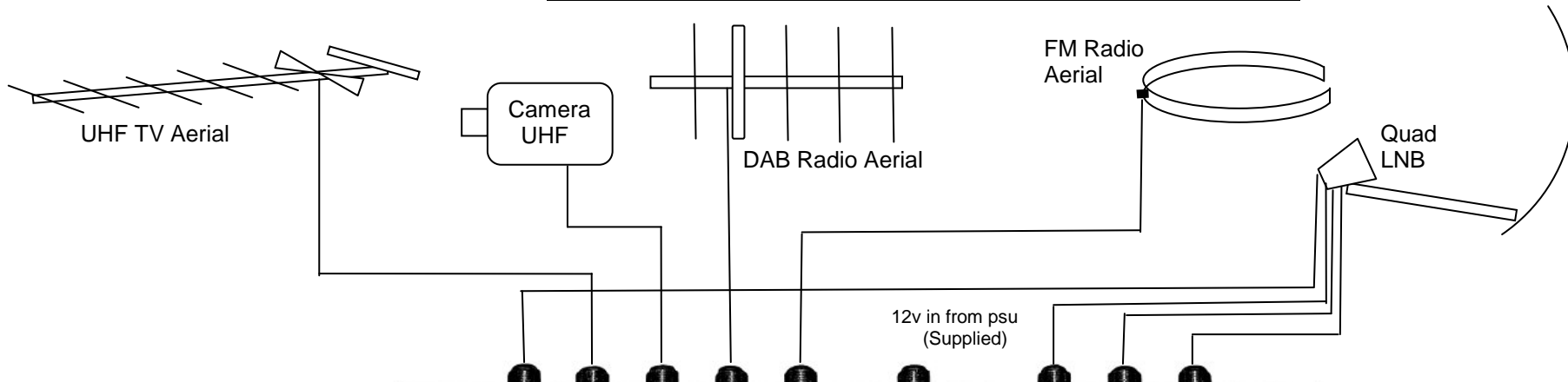
Connectors

Inputs/outputs F type (female on all ports)
Power supply input connector F type female

Supplied Accessories: Mains power Unit, Specifications and Wiring Diagram.

[Return to Triax Domestic Distribution Unit \(DDU\)](#)

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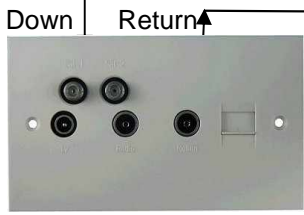


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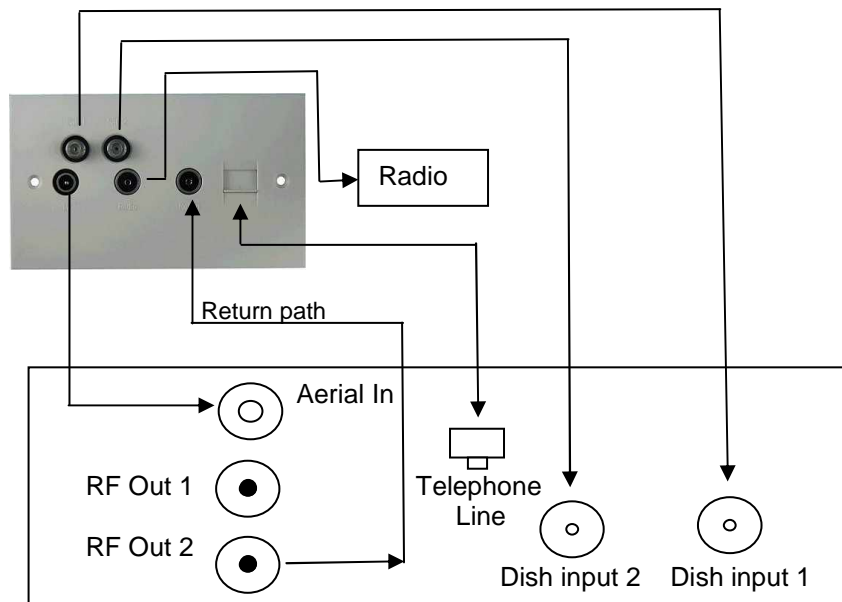
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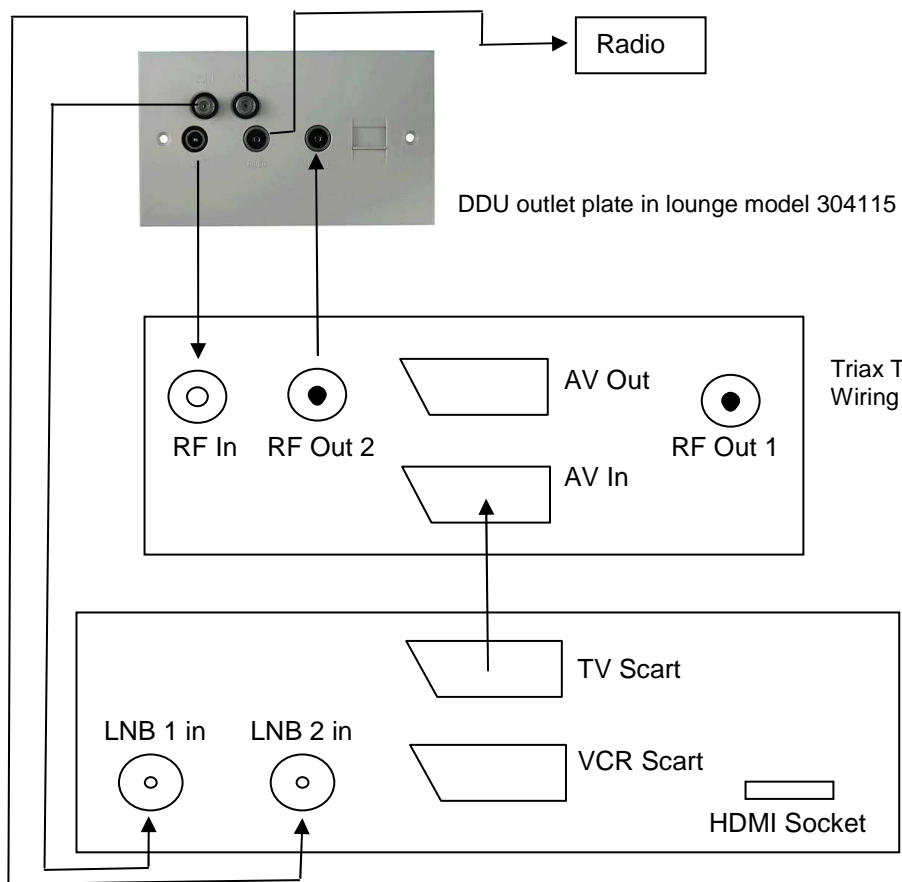
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Using Freesat+ HD Satellite receiver (rear view connections)

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IR link to uplink/IR 5...6 0 dB

Supply/line power requirements:

Supply voltage, V DC (from plug to power supply) 12V/190 mA
Digital link power supply outputs (R/TV 1...6, overload protected) 9V DC @ 20 mA
Power on LED (green) Yes
DC power pass (for LNB) to SAT 1...4 Max. 300 mA
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Connectors

Inputs/outputs F type (female on all ports)
Power supply input connector F type female

Supplied Accessories: Mains power Unit, Specifications and Wiring Diagram.

[Return to Triax Domestic Distribution Unit \(DDU\)](#)