Technical data

RF input and output	
RF loop-through	87.5 - 790 MHz, gain 0-3dB to each output
Modulator output channel	E21-E60, set via Sky menu
Modulation	UK System I (DSB), level approx. 70 dBµV at each output
AV and power interface	Sky I/O port via 0.5m flying lead
Remote control - see note below	
IR 'eye' current available (9V) (no external PSU)	10mA max via each output, s/c protected total current must not exceed 15mA
System load with external 12V PSU	75mA max. via RF - OUT 2 only, s/c protected
Connectors and standards	
RF IN	IEC' (female) (IEC 61169-2)
RF OUT	Type-F (female) (IEC 61169-24
Sky I/O	10-=pin mini-DIN (proprietary interface)
Operating temperature range	0 - + 40°C
External DC power	2.1/5.5mm DC jack (centre pin +ve)

Note: Maximum eye current loading on RF outputs (without external PSU)

- Using a *PRO*ception proSAT1EYE (Mk2 or later) a maximum of three eyes may be connected, two via a splitter on one output and one directly connected on the other.
- Using other makes of eye (where current loading may exceed 7.5mA) only one eye is permitted.
- Exceeding these limit will overload the internal DC-DC converter and may damage the unit.

Special note:

On Sky boxes with the default overnight ECO standby mode, power to the modulator will be disabled during the night standby period. If the user wishes to be able to wake the box up remotely during this period the ECO mode must be de-selected (Services, Options, Setup, Standby Mode).

2-Year Guarantee

This guarantee covers failure of your *PRO*ception product resulting from manufacturing defect within a period of 2 years from the date of supply to the end-user.

This guarantee does not cover damage to the product caused by abuse, tampering, defective installation or natural causes such as lightning discharge. Repair or attempted repair, other than by the manufacturer, will render this guarantee void.

This guarantee does not affect a consumer's statutory rights.

Performance data given are typical unless otherwise stated. We reserve the right to change product designs and specifications without notice.

'Freeview' is a registered trade mark of DTV Services Ltd.
'Sky', is a registered trade mark of Sky International AG.

UHF Modulator Sky Satellite Port Replicator—Instruction Manual

PROLINK22

The proLINK22 is a versatile UHF analogue modulator intended for use with newer Sky set-top receivers without RF outputs (e.g. DRX595). This unit connects to the I/O port on the Sky receiver and replaces the RF distribution and remote control functions previously available from the RF OUT 1 and RF OUT 2 connectors.

Additional features

- RF loop-through for Freeview, etc., replaces Sky AERIAL IN connector.
- Modulator output coverage: RF channels 21-60. Simple RF channel setting using the Sky box Setup menu.
- Remote control capability on both RF outputs—supports up to two remote outlets with OR 'eyes', (where no local RF output is required).
- A third output location can be supported by using a splitter (see text).
- External power supply option allows construction of larger systems.
- 3-colour power status LED.

Location

The modulator can be located in any convenient position close to the Sky receiver box and does not require fixing. Clearance of at least 25 mm should be allowed around the front and sides of unit for ventilation. Avoid positioning the modulator on top of a stack of other equipment as this may result in overheating. The fixing lugs may be used if desired to secure the unit to a cabinet etc. (screws not supplied).

Power supply and indicator

The modulator is powered from the associated Sky receiver via the I/O link cable. The RF Outlet Power option must be enabled in the Sky menu – see following page. A separate power supply unit is not required unless a larger distribution system (usually four or more output locations) is to be installed.

For larger systems, where a line-powered distribution amplifier such as the proAMP104X or proMHD14R is used, an external proPSA123 or proPSA125 power unit must be connected to the modulator. If a separately powered distribution amplifier is used (proAMP-R series or proAMP310X with local PSU) the modulator will not require a further power unit.

The power status LED on the front of the unit works as follows:

LED colour	Sky box power	External PSU	Status
Green	ON	OFF or not installed	Normal condition for system with no
Orange	ON	ON	Normal condition for system with
Red	OFF	ON	Sky box power disabled or rebooting, box off or in ECO standby mode.

Output connections and control ‘eyes’

The proLINK22 has two RF outputs each of which can be connected directly to a TV receiver or connected via an infrared receiver ‘eye’ to provide remote control of the Sky box. These outputs work as follows:

- When no external power unit is connected, the two RF outputs are interchangeable.
- However, when an external power unit is used, RF OUT 2 must be used to feed the distribution amplifier. RF OUT 1 can then be used if desired to feed an additional TV.
- Each output may be split 2-ways (use 2-way splitter type proSPL204), provided that the eye current limits are observed—see table and note on Page 4.

Power and RF Channel setting and remote receiver tuning

To enable power and set the desired modulator output channel use the Setup menu of the Sky box, and choose the RF Outlets option. The Setup menu (normally hidden) is accessed by entering SERVICES, 0, 0, 1, SELECT rapidly on the Sky handset.

Ensure that the RF Outlet Power is turned on and choose an output channel in the range 21–60 which does not coincide with any off-air DTT multiplex in the area. See http://www.digitaluk.co.uk/coveragechecker/ (select the detailed view box) to find the local broadcast channel numbers.

With the Sky box switched on, tune all connected remote TVs to the chosen analogue RF channel. Refer to the instructions for particular TV models if necessary.

Application examples

- Fig.1 shows a basic 1+2-way system with two remote TVs. Either of the RF outputs could alternatively be used to provide an RF feed to the main TV if necessary (making a 1+1-way system).
- Fig 2 shows a 1+4-way system using a proAMP104X (or proMHD14R) amplifier.
- Fig 3 shows a 1+10-way system using a proAMP310X amplifier. In this system, the power unit must be connected to the amplifier, not the modulator. (Alternatively, a proPSU112X may be used in-line between the proAMP310X and the proLINK22.)

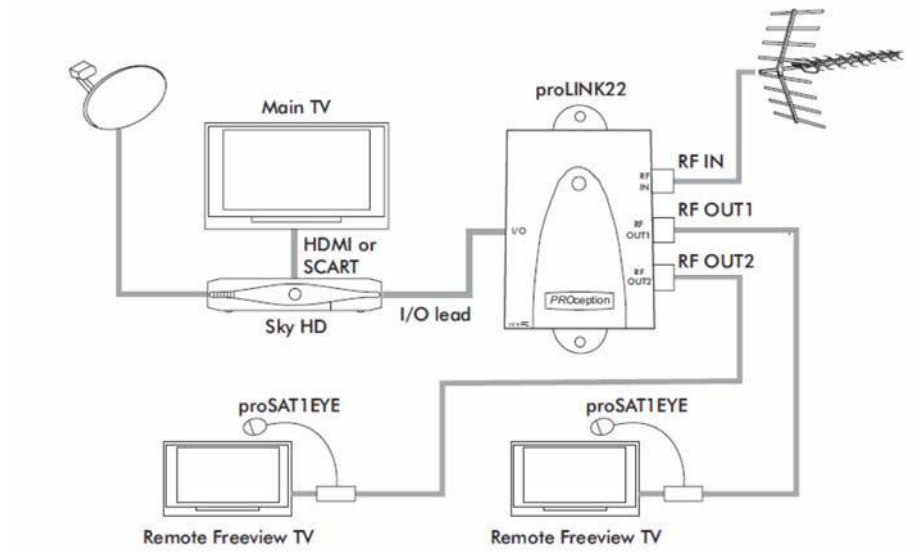

Fig.1—1+2-way system using the proLINK22 in stand-alone mode.

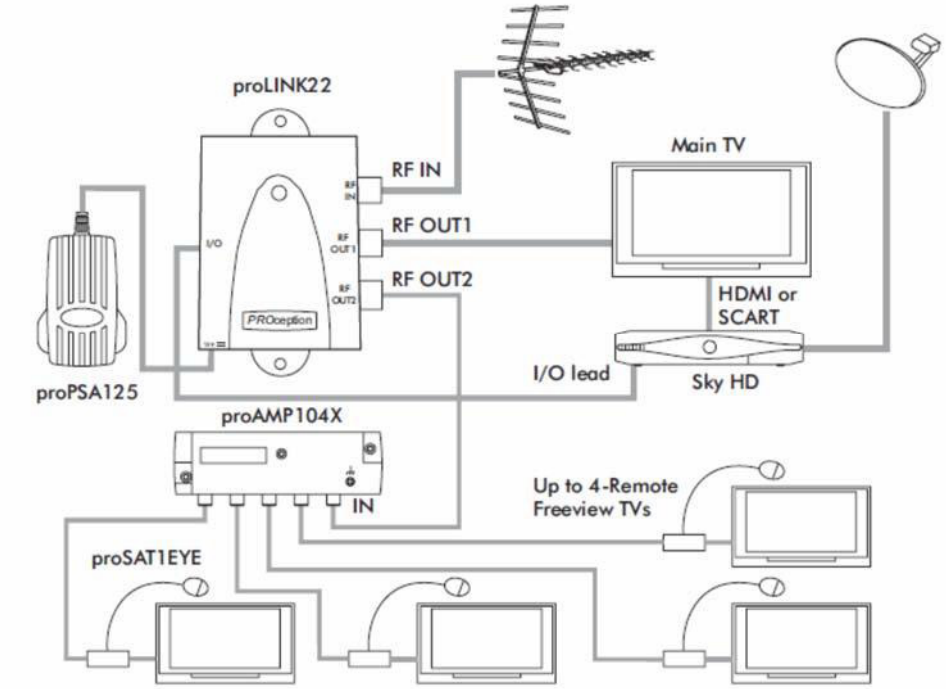

Fig.2—1+4-way system using proAMP104X (or proMHD14R) amplifier.

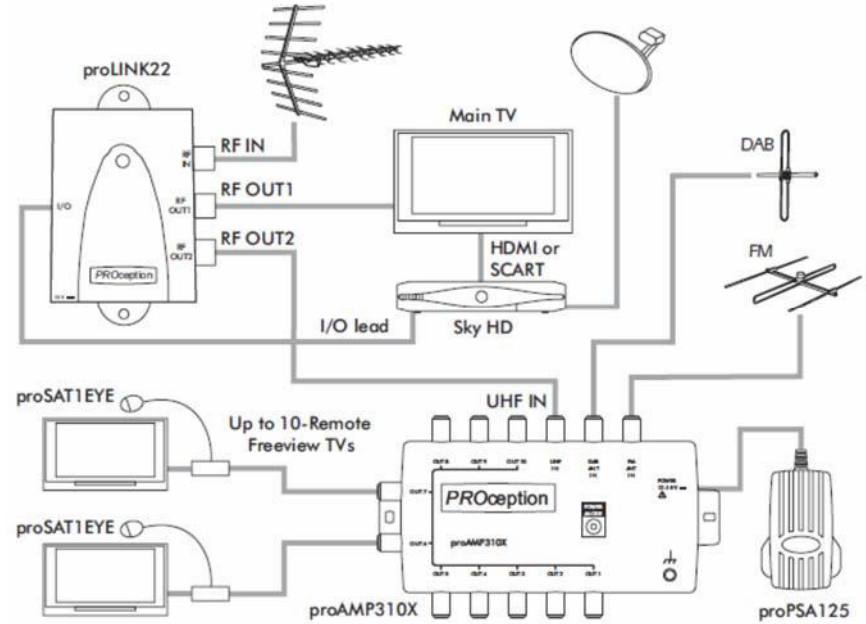

Fig.3—1+10-way system using proAMP310X amplifier.