



Unicable II Cascadable switch with Terrestrial input and 4x Sky dSCR/SatCR/Legacy+Terrestrial outputs

Model: ISKY-UST110-CUO4O-16P

Item: 5412









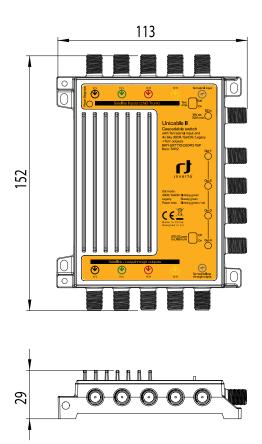
The Multiswitch unit connects to a Quattro LNB and offers a terrestrial input port to connect a terrestrial antenna for reception of UHF/DAB/radio broadcasts. The terrestrial signal can be amplified through a dedicated "On/Off" switch and is combined over each of the 4 output ports.

The Multiswitch unit can be powered through a "DC in" port, any of the trunk output lines or from the STB output ports (typically using a Sky power inserter device). In typical cascaded MDU installations, the DC voltage supplied over the DC in or trunk output lines is passed through to the trunk input lines to power the LNB and the "STB DC pass to LNB trunk" switch must be set to "Off".

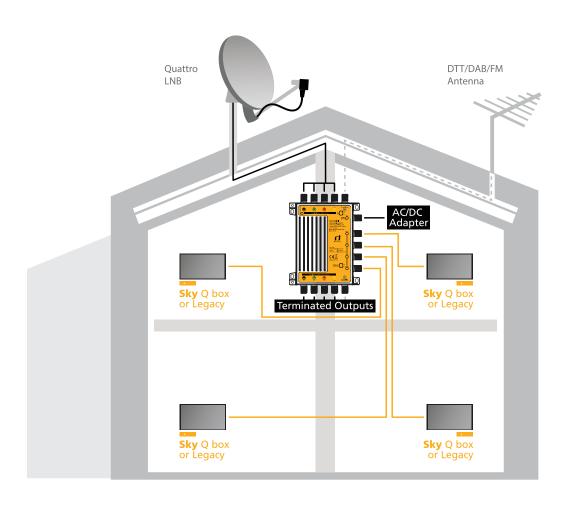
To help the installer ensure at the time of installation that the unit's power supply is sufficient to support a full load in the future, i.e. 4x SkyQ STBs, the Multiswitch features a special power diagnosis test mode that is triggered automatically upon unit startup. During this 15 second test, the Multiswitch will operate in full load and will light the power-diagnosis led in green if the unit is supplied with sufficient power or in amber if not.

A status led, located next to each output port, indicates the operating mode of the port (Legacy=solid green, Sky dSCR=blinking green, Power diagnosis=blinking red/green).





Typical single household installation





Typical cascaded MDU/building installation





Technical Specifications

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Frequency range	Satellite Terrestrial	VHF UHF	950-2150 MHz 174-230 MHz 470-790 MHz
Inputs (F-type connectors) Trunk outputs (F-type connectors) Tap output ports (F-type connectors)			4 SAT (Quattro) + 1 TERR 4 SAT (Quattro) + 1 TERR 4 x Sky dSCR (16 UBs) / SatCR / Legacy auto-detect ports with combined Terrestrial signal
Trunk DC pass	Satellite Terrestrial		Yes No
Trunk max through-loss	Satellite Terrestrial (Amp OFF)	VHF UHF	-4 dB -6 dB -8 dB
Gain (Tap)	Satellite	Out of AGC	>25 dB
	Terrestrial	AGC VHF - Amp OFF UHF - Amp OFF VHF - Amp ON UHF - Amp ON	-25 dB to +27 dB -16 dB ±2dB -18 dB ±2dB +4 dB ±2dB +2 dB ±2dB
Gain control	Satellite Terrestrial	Tap Tap + Trunk	AGC +20dB amp., manual switch
Max Input signal level	Satellite Terrestrial		OdBm (108dBuV) -20dBm (88dBuV) when Amp=ON OdBm (108dBuV) when Amp=OFF
Output power level (agregated) (input signal: single carrier at start/mid/end band freq @-20dBm)	Satellite	dCSS/Unicable UB power Legacy	-25 dBm (83 dBuV) ±2dB -21 dBm to -12 dBm (87 dBuV to 96 dBuV)
Output level variation (input signal: single carrier at start/mid/end band freq @-20dBm)	Satellite	dCSS/Unicable Legacy full band, per port full band, all ports	<2 dB <4 dB per frequency across all ports <9 dB full band per port <4 dB <4 dB
	Terrestrial		
Input power dynamic range (agregated)	Satellite		-36 dBm to -4 dBm (72 dBuV to 104 dBuV)
Return loss	Satellite trunk ports Terrestrial trunk ports Tap output ports	Satellite Terrstrial	>10 dB >8 dB >6 dB >8 dB
Isolation	Trunk port to port Trunk port to Tap port		>30 dB >26 dB
Integrated phase noise			1.5 degrees max.
Control and protocols			Sky dSCR, SatCR, DiSEqC 1.x/2.0 EN50949/EN50607 13/18VDC + 0/22kHz Legacy/dSCR auto switching
User bands per port dSCR/SatCR/Legacy mode indication Input/Output impedance			16 LED 75 ohm
Power supply	via DC in / SAT trunk		19 VDC
Power from DC-in to Trunk LNB power supply Power consumption Power indication Earth terminals	via Tap ports LNB power supply switch=ON		13/18 VDC Yes 500mA max @ 18VDC 600mA max @19VDC (no load) LED Yes
Operating temperature			-20°C to +50°C
IP			IP54
Product dimensions (H x W x D)			15.2 x 11 x 2.6cm
Weight			280 g

^{*} Unused ports need to be terminated by 75 Ohm DC-blocked terminators



9:1340MHz

10:1485MHz

11:1550MHz

12:1615MHz

13: 1745MHz

14:1810MHz

15 : 1875MHz

16:1940MHz

5: 985MHz 5: 1050MHz 7: 1115MHz 7: 1115MHz

8:1275MHz

Technical Specifications

User band (channel) frequencies: Sky UK (dSCR) User Band

EN50494/EN50607 User Bands 1 : 1210MHz 2 : 1420MHz 3 : 1680MHz 4 : 2040MHz 3:1680MHz 19:1530MHz 9 : 1280MHz 20 : 1580MHz

24:1830MHz

11:1380MHz 21:1630MHz 14: 1480MHz 22: 1730MHz 15: 980MHz 23:1780MHz

17:1080MHz 25 : 1880MHz 18:1130MHz 26:1930MHz

16:1030MHz

User band (channel) bandwidthUser band 46 MHz User band (channel) gain ripple 3 dB max.

Logistical info

Packaging dimensions (h x w x d) 15.5 cm x 11.8 cm x 3.5 cm

Packaging weight 0.3 Kg Quantity per carton 30

48.2 cm x 24.9 cm x 50 cm Carton dimensions (h x w x d)

10.71 kg Carton weight Quantity per pallet 840

Optional accessories (sold separately):

■ 65 W power supply unit, supplying up to 4 units + LNB(s)

5581 65W Power Supply adapter for Unicable II™ multiswitches (UK plug) IDLU-ADPT04-19342-UPM

■ 18 W wall power supply, supplying 1 unit + LNB(s)

5638 19W Power Supply adapter for Unicable II™ multiswitches (UK plug) MSA-C1000IS19.0-24K-GB

■ Power Inserter

5958 Unicable II™ Power Inserter, 5-2400MHz IDLU-PINS03-OOOOO-OBT

