

Unicable II[™] cascadable switch with terrestrial input and 8x Sky dSCR/ SatCR/Legacy + terrestrial outputs

Model: ISKY-UST110-CUO4O-16P

Item: 5457









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 8 output ports.

The Multiswitch unit can be powered through a DC input 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 in order to power the LNB. Whereby 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. 8x 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.

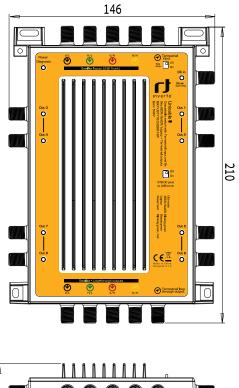
A status led, located next to each output port, indicates the operating mode of the port (Legacy=solid green, Sky dSCR=blinking green, Power diagnosis=blinking red/green).

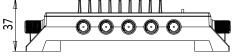
Optional accessories (sold separately):

- 5422 65W Power Supply adapter for Unicable II multiswitches (UK plug)
- 5431 18W Power Supply adapter for Unicable II multiswitches (UK plug)
- 5344 Unicable II Power Inserter, 5 MHz ~ 2400 MHz

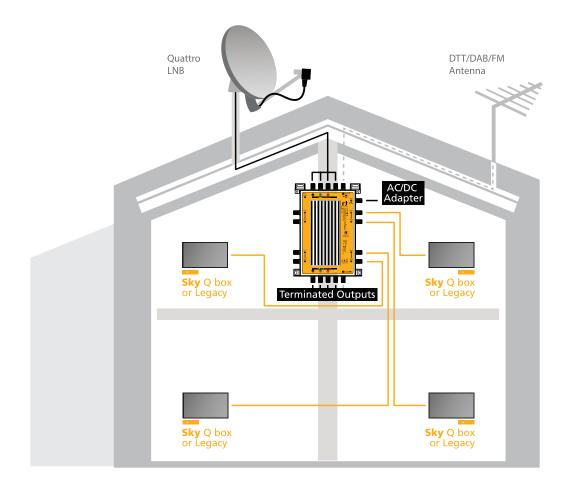
IDLU-ADPT02-19342-OPP IDLU-ADPT01-OOOUK-OPP

IDLU-PINS01-OOOOO-OPP





Typical single household installation





Typical cascaded MDU/building installation





Technical Specifications

950-2150 MHz Frequency range Satellite Terrestrial VHF 174-230 MHz UHF 470-790 MHz Inputs (F-type connectors) 4 SAT (Quattro) + 1 TERR Trunk outputs (F-type connectors)
Tap output ports (F-type connectors) 4 SAT (Quattro) + 1 TERR 8 x Sky dSCR (16 UBs) / SatCR / Legacy auto-detect ports with combined Terrestrial signal Trunk DC pass Satellite Yes Terrestrial No Trunk max through-loss Satellite -4 dB Terrestrial (Amp OFF) VHF -8 dB UHF -12 dB Gain (Tap) Satellite Out of AGC >25 dB-25 dB to +27 dB AGC VHF - Amp OFF Terrestrial -18 dB ±2dB UHF - Amp OFF -20 dB ±4dB VHF - Amp ON UHF - Amp ON +2 dB ±2dB $0 dB \pm 4dB$ Gain control Satellite AGC Тар +20dB amp., manual switch Terrestrial Tap + Trunk Max Input signal level Satellite 0dBm (108dBuV) -20dBm (88dBuV) when Amp=ON Terrestrial 0dBm (108dBuV) when Amp=OFF Satellite -25 dBm (83 dBuV) ±2dB Output power level (agregated) dCSS/Unicable UB power (input signal: single carrier at start/mid/end Legacy -21 dBm to -12 dBm (87 dBuV to 96 dBuV) band freq @-20dBm) Output level variation Satellite dCSS/Unicable <2 dB (input signal: single carrier at start/mid/end <4 dB per frequency across all ports Legacy full band, per port band freq @-20dBm) Terrestrial <9 dB full band per port full band, all ports <4 dB <8 dB Input power dynamic range (agregated) Satellite -36 dBm to -4 dBm (72 dBuV to 104 dBuV) Return loss Satellite trunk ports >10 dB >8 dB Terrestrial trunk ports Tap output ports Satellite >6 dB >8 dB Terrstrial Isolation Trunk port to port >30 dBTrunk port to Tap port >26 dB Integrated phase noise 1.5 degrees max. Control and protocols Sky dSCR, SatCR, DiŠEqC 1.x/2.0 EN50949/EN50607 13/18VDC + 0/22kHz Legacy/dSCR auto switching User bands per port 16 dSCR/SatCR/Legacy mode indication LED Input/Output impedance 75 ohm via DC in / SAT trunk 19 VDC Power supply 13/18 VDC via Tap ports Power from DC-in to Trunk LNB power supply LNB power supply switch=ON 500mA max @ 18VDC Power consumption 1200mA max @19VDC (no load) Power indication LED Earth terminals -20°C to +50°C Operating temperature ΙP IP54 Product dimensions (H x W x D) 21 x 14.6 x 3.7cm

500 g

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



Technical Specifications

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

EN50494/EN50607 User Bands 3:1680MHz 19:1530MHz

26:1930MHz

1 : 1210MHz 2 : 1420MHz 3 : 1680MHz 4 : 2040MHz 9:1340MHz 9 : 1280MHz 20 : 1580MHz 10:1485MHz 11:1380MHz 21:1630MHz 11:1550MHz 14:1480MHz 22:1730MHz 12:1615MHz 5: 985MHz 5: 1050MHz 7: 1115MHz 7: 1115MHz 23:1780MHz 15: 980MHz 13: 1745MHz 24 : 1830MHz 16: 1030MHz 14:1810MHz 17:1080MHz 25 : 1880MHz 15 : 1875MHz

8:1275MHz

16:1940MHz

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

Logistical info

Packaging dimensions (h x w x d) 21.3 cm x 14.9 cm x 4.4 cm

18:1130MHz

Packaging weight 0.61 Kg Quantity per carton 30

Carton dimensions (h x w x d) 65.4 cm x 23.2 cm x 32 cm

Carton weight 19 kg Quantity per pallet 300

Optional accessories (sold separately):

■ 65 W power supply unit, supplying up to 2 units + LNB 5581 65W Power Supply adapter for Unicable II™ multiswitches (UK plug)

IDLU-ADPT04-19342-UPM

■ Power Inserter

5958 Unicable II™ Power Inserter, 5-2400MHz

IDLU-PINS03-OOOOO-OBT

