

## Unicable II®

Cascadable Multiswitch with Terr input & 12 Sky dSCR/SatCR/ Legacy + equalized Terrestrial outputs
ISKY-UST112-CU012-16S
Item: 6563



This Multiswitch unit connects to a Quattro or Wideband LNBs and offers a terrestrial input port to connect a terrestrial antenna and enable the distribution of satellite TV as well as DTT/DAB broadcasts at MDU/IRS installations.

A manual switch selects whether the satellite inputs connect to a Quattro LNB or up to two Wideband LNBs for receiving up to two full satellite broadcasts. The loop-through Trunk ports can be connected to cascade additional Multiswitch units.

The DC-input port of the Multiswitch unit powers the Trunk lines which power the connected LNB and the built-in Terrestrial amplifier of the unit and of any other cascaded units. The Trunk power LED will turn green when the Trunk lines are powered.

The output ports are powered by the connected STBs enabling super low power consumption from the Trunk lines and powering as many cascaded switches as possible using a single power supply unit. If a connected STB is not able to power its respective port, a power inserter can be utilized. The Multiswitch features a manual switch allowing to power the Trunk lines from the STB ports. If the connected STBs are not able to provide sufficient power, a power inserter can be utilized. This is useful in installations having no power supply available next to the Multiswitch unit in order to power its Trunk lines and the connected LNB via the DC-in port.

Each of the twelve STB output ports is compatible with either Sky Q, Sky+ HD or Sky+ STB models, delivers 16 User Bands and features a Port status LED indicating its operational mode:

- Solid green = Legacy mode (e.g. Sky+ STB).
- Blinking green = dSCR or SatCR mode (e.g. Sky Q or Sky+ HD STBs).
- Off = no voltage detected on the port (only terrestrial signal available on the port)

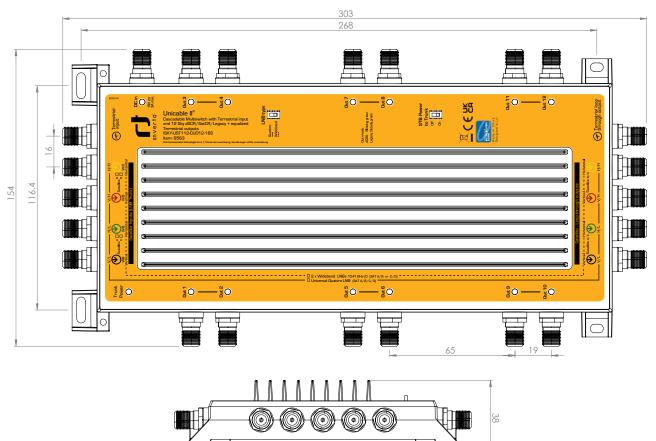
All the twelve STB output ports combine a unity-gain equalized Terrestrial input signal.

For Indoor and outdoor (IP54) installations

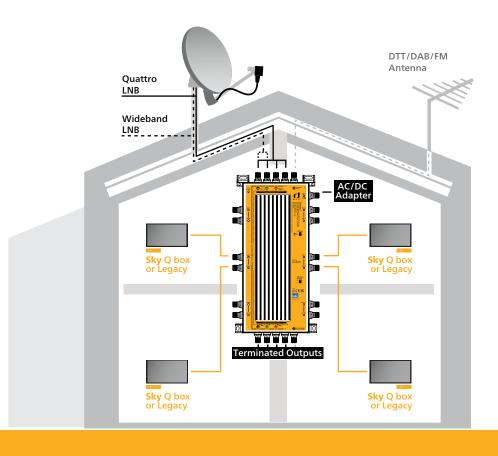








Typical single household installation





# Typical MDU/IRS building installation with two Wideband LNBs receiving two satellites



<sup>\*</sup> If Sky service is required to be distributed, it should be connected over the SAT A position



## Technical data

Satellite Quattro LNB: 950 MHz ~ 2150MHz Frequency range Wideband LNB: 290 MHz ~ 2350 MHz (LO=10.41 GHz) Terrestrial VHF 174-230 MHz UHF 470-790 MHz

Inputs (F-type connectors) 4x Satellite IF inputs: From 1x Quattro LNB or from up to 2x Wideband LNBs

1 x DTT/DAB input from Terrestrial antenna

-2 ~ +3 dB

Trunk outputs (F-type connectors) Tap output ports (F-type connectors) 4 Satellite IF + 1 TERR 12 x Sky dSCR (16 UBs) / SatCR / Legacy auto-detect ports with combined Terrestrial signal

Trunk DC pass Satellite Terrestrial No

Trunk max through-loss Satellite 6 dB max. 0 ±1 dB gain Terrestrial

Satellite Out of AGC Gain (Tap) >25 dB-25 dB to +27 dB

TERR IIP3 10dBm min.

Terrestrial

Max Input signal level (aggregated) Satellite 0dBm (108dBuV) Terrestrial -20dBm (88dBuV)

-25 dBm (83 dBuV) ±2 dB -25 dBm (83 dBuV) ±4 dB Output power level (AGC) Satellite dCSS/Unicable - UB power

Legacy - average TP power

Output level variation Satellite dSCR/Unicable (input signal: single carrier at start/mid/ Legacy <10 dB

ènd band freq @-20dBm) 4 dB max. Terrestrial <4 dB

Input power dynamic range (aggregated) Satellite -32 dBm to -4 dBm (76 dBuV to 104 dBuV)

Return loss Satellite Trunk ports >10 dBTerrestrial Trunk ports >8 dB Tap output ports Satellite >8 dB Terrestrial >8 dB

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, DiSEqC 1.x/2.0 EN50949/EN50607

13/18VDC + 0/22kHz Legacy/dSCR auto switching

User bands per port dSCR/SatCR/Legacy mode indication LED Input/Output impédance 75 ohm via DC in / SAT Trunk 19 VDC Power supply

13/18 VDC via Tap ports Power from DC-in to Trunk Yes On/Off switch Power from STB ports to Trunk

500mA max @ 18VDC LNB power supply

Output port: 300mA (12 UBs) / 365mA (32UBs) max. @11-20V DC, (supplied by the connected STB) DC in / Trunk port: 100mA max. @18V DC (no LNB load) Power consumption

Power indication DC-in / Trunk / STB LEDs: >11.5V Green

<11.5V Red Earth terminals Yes

-20°C to +50°C Operating temperature

ΙP IP54

Product dimensions (H x W x D) 30.3 x 15.4 x 3.8 mm

Weight 896 g



User band (channel) frequencies:

#### Sky UK (dSCR) User Band

### EN50494/EN50607 User Bands

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3:1680MHz	19:1530MHz	1 : 1210MHz 기 👨	9:1340MHz <sub>7</sub>	
9:1280MHz	20:1580MHz	2 : 1420MHz   ភ្ន	10 : 1485MHz	
11:1380MHz	21:1630MHz	3 : 1680MHz   ੋ	11 : 1550MHz	E
14 : 1480MHz	22:1730MHz	4 : 2040MHz <sup>J 🍝</sup>	12 : 1615MHz	15C
15: 980MHz	23:1780MHz	5:985MHz 7 写	13 : 1745MHz	060
16:1030MHz	24:1830MHz	6 : 1050MHz   5	14 : 1810MHz	7
17 : 1080MHz	25 : 1880MHz	7 : 1115MHz │S	15 : 1875MHz	
18:1130MHz	26: 1930MHz	8 : 1275MHz <sup></sup>	16 : 1940MHz <sup>-</sup>	

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

Logistical info

Packaging dimensions (h x w x d) 318 x 158 x 42 mm

Packaging weight 1.01 Kg Quantity per carton 15

Carton dimensions (h x w x d) 490 x 330 x 238 mm

Carton weight 15.86 Kg Quantity per pallet 720

## Optional accessories (sold separately):

■ Power Inserter

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

■ 19W Power supply unit

5638 19W Power Supply adapter for Unicable II® / Unifiber™ (UK plug) IDLU-ADPT01-19WOO-UPM

■ 65 W power supply unit

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

■ 65 W power supply unit

6699 65W Power Supply adapter for Unicable II® multiswitches (UK plug) IDLU-ADPT05-19342-UPM

For purpose of brevity, some product descriptions in this sheet remain at platform level and may not be referred to as detailed datasheets of the products inverto Digital Labs reserves the right to amend, omit or add products, product-lines, and / or features without notice.